

NASA-TM-4036 19880017760

# **The Hard X-Ray Burst Spectrometer Event Listing 1980-1987**

**B. R. Dennis, L. E. Orwig, A. L. Kiplinger,  
R. A. Schwartz, B. R. Gibson, G. S. Kennard,  
A. K. Tolbert, D. A. Biesecker, G. J. Labow,  
and A. Shaver**

**JUNE 1988**

**LIBRARY COPY**

JUN 1988  
LANGLEY RESEARCH CENTER  
LIBRARY, NASA  
HAMPTON, VIRGINIA

**NASA**

# The Hard X-Ray Burst Spectrometer Event Listing 1980-1987

B. R. Dennis and L. E. Orwig  
*Goddard Space Flight Center  
Greenbelt, Maryland*

A. L. Kiplinger and R. A. Schwartz  
*ST Systems Corporation (STX)  
Lanham, Maryland*

B. R. Gibson, G. S. Kennard, A. K. Tolbert,  
D. A. Biesecker, G. J. Labow, and A. Shaver  
*Science Applications Research, Inc.  
Lanham, Maryland*



National Aeronautics  
and Space Administration

Scientific and Technical  
Information Division

1988

## INTRODUCTION

This event listing is a comprehensive reference for the hard X-ray bursts detected with the Hard X-Ray Burst Spectrometer (HXRBS) on the Solar Maximum Mission (SMM) from the time of launch on February 14, 1980 through December 1987. It is a revised and updated version of the previous three HXRBS event listings issued as NASA Technical Memorandum 83925 in April 1982, 84998 in March 1983, and 86236 in December 1985. This document completely supersedes the earlier listings.

The data contained in this HXRBS event listing is part of the extensive SMM flare catalog that resides on the SMM Data Analysis Center's VAX 8350 computer (SPAN node name SOLMAX) in Building 7 at Goddard Space Flight Center. In addition to the information in this listing, the SMM catalog contains extensive data on the same and other flares obtained from the other SMM instruments, other spacecraft, and ground-based radio and optical observatories. Software which permits off-site users to access the catalog and manipulate and display the data is described in the document SMM Binary Flare Index Description and Software User's Guide (Tolbert, 1985). In addition, each program has an on-line help utility. To enter the programs, the user must log onto SOLMAX::HXRBS and type FSORT (performs selecting and/or sorting), FPLOT (produces plots), or CATPRINT (generates listings). A comprehensive SMM listing of events detected in 1980 and 1984 will be published shortly (Nelson et al., 1988) and this will supersede the only other comprehensive SMM event listing, which covers 1980 events, published by Pryor et al. (1981).

The X-ray counting rate time profiles with 1s resolution are available on microfiche for most of the events in this index. One plot is given for each event showing the total counting rate integrated over the full energy range of the instrument as a function of Universal Time. Copies of these microfiche can be obtained from the authors or from the National Space Science Data Center, Code 601, NASA/GSFC, Greenbelt, MD 20771.

Over 8600 events were detected with HXRBS during the almost eight years of operation covered by this listing. A plot of the number of events recorded per day from 1980 to 1987 shown in Figure 1 reflects the changing solar activity. Nearly all of the events in this listing are solar flares. Perhaps 40 are non-solar gamma-ray bursts (indicated by NS in the FLAGS column) and ~240 probably resulted from passage through regions of trapped charged particles (indicated by AX in the FLAGS column).

The duty cycle for the detection of solar flares is about 50% as a result of the circular SMM orbit with an altitude of 500 km and an inclination of 33 degrees. The orbital period is 95 minutes with 60-65 minutes in the sun and the remainder

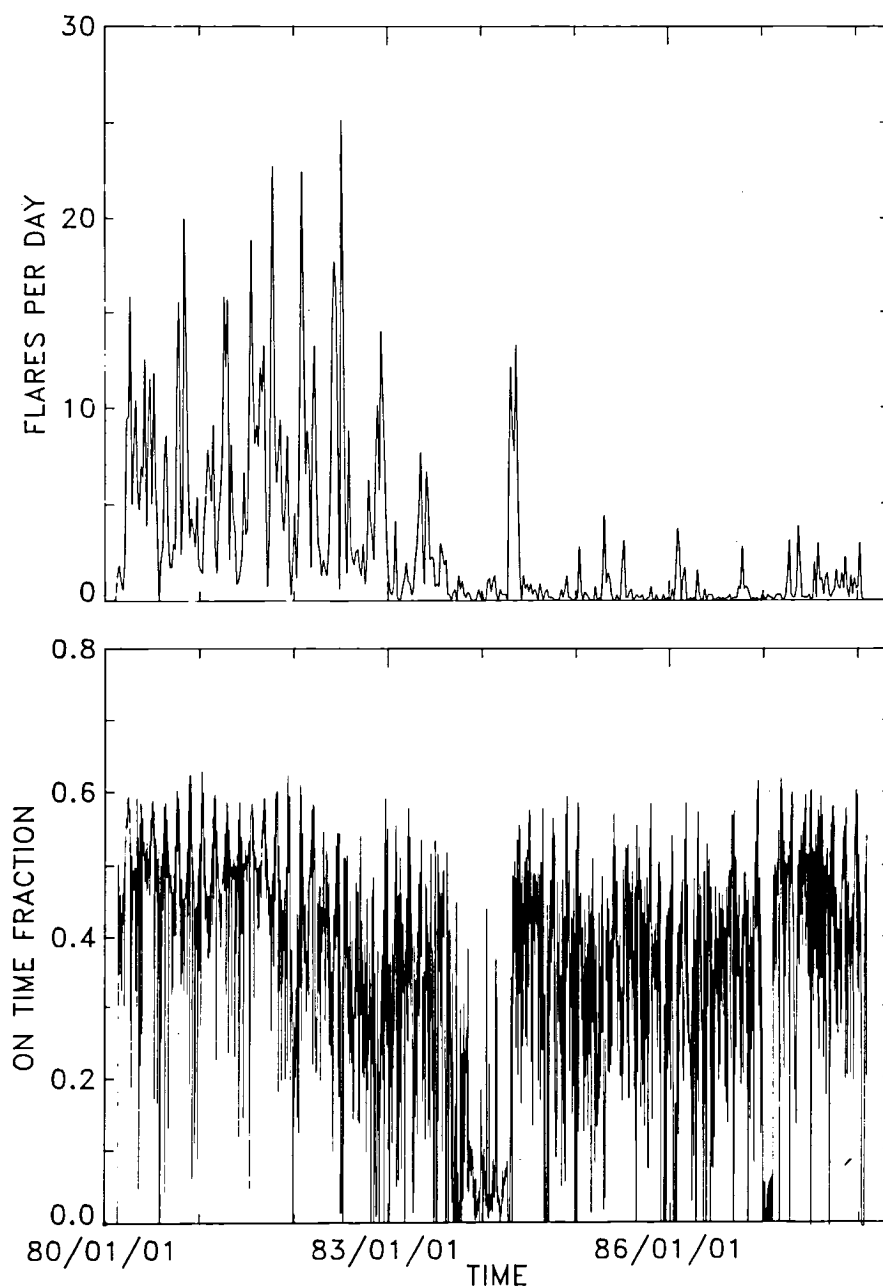


FIGURE 1. (a) The number of flares per day (averaged over a week) observed with HXRBS plotted as a function of time from February 1980 through December 1987. (b) The fraction of time each day that HXRBS was operating with the Sun in the field of view and for which data were recorded on the HXRBS Sperry Univac computers within 24 hours of the observation. (The gap from December 1987 to January 1988 reflects a period in which the day/night indicator was temporarily reprogrammed to indicate continuous night so that the 32K-word memory would dump immediately when triggered to support a HXRBS gamma-ray burst search.)



behind the earth. In 7 or 8 orbits per day, 5 to 30 minutes of data are lost because the HXRBS high-voltage power supplies are commanded off as the satellite passes through the high charged-particle fluxes in the South Atlantic Anomaly. HXRBS was turned off occasionally for longer intervals as a result of satellite difficulties. The two longest intervals in 1980 were, (1) July 29 at 2100 UT to August 1 at 1500 UT, and (2) December 22 at 1800 to December 23 at 2000. All other off times were less than 24 hours in duration. Large amounts of data were lost during the latter half of 1983 and early 1984 prior to the SMM Repair Mission, when problems were experienced with an on-board tape recorder. A disk file on the SOLMAX computer contains minute-by-minute information showing exactly when HXRBS was observing. This file is accessed through the FPLOT program and is described in the flare index software user's guide by Tolbert mentioned above.

## INSTRUMENTATION AND DATA COLLECTION

HXRBS has been described in detail by Orwig et al. (1980), and the reader is referred to that paper for a description of the X-ray detector and its various modes of operation. Briefly, the X-ray detector is an actively-shielded CsI(Na) scintillation crystal with a sensitive area of  $71 \text{ cm}^2$  and a  $40^\circ$  (FWHM) circular field of view. Thus, the whole sun is observed with no spatial information. With such a wide field of view, even the failure of the SMM fine pointing capability on November 25, 1980 did not seriously degrade the HXRBS flare observations. From this time until the SMM Repair Mission in April 1984, the detector axis drifted as much as 10 degrees from the sun, but the only effect on the HXRBS solar observations was a periodic fluctuation in the solar-viewing sensitive area of less than 25%. Since the repair mission, the spacecraft has been continuously pointed at the sun with only occasional short offset pointings for comet observations and other "target-of-opportunity" observations.

The basic scientific data from HXRBS consist of the counting rate recorded every 128ms in each of 15 pulse-height channels. In-orbit calibration data shows that these channels covered the energy-loss range from 25 to 440 keV immediately after launch and then drifted slowly to higher energies since that time. After the repair mission in April 1984 the amplifier gain was changed by ground command and the lower energy threshold was restored to  $\sim 25$  keV. This gradual change in energy-loss range is documented in Table 1 where the best estimates of the energies of the channel edges are given for the 15th day of each month from launch through 1987. Note that the actual in-orbit channel edges are significantly different from those given by Orwig et al. (1980). Table 2 documents short time periods during which different

**TABLE 1**

The energy loss in keV in the central detector corresponding to the edges of the 15 pulse-height channels of HXRBS on the fifteenth day of each month from February, 1980 to December, 1987. Note that the values given for April 1984 reflect the change in gain made on April 19 at 2220 UT, after the SMM repair.

| CHANNEL # | 1    | 2    | 3    | 4    | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    |
|-----------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1980      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| FEBRUARY  | 25.0 | 29.2 | 49.4 | 70.2 | 91.7  | 113.6 | 135.6 | 158.9 | 183.0 | 208.9 | 234.4 | 261.1 | 289.9 | 318.7 | 348.9 |
| MARCH     | 25.9 | 30.4 | 51.3 | 72.9 | 95.2  | 117.9 | 140.8 | 165.0 | 190.0 | 216.9 | 243.3 | 271.1 | 301.0 | 330.9 | 362.3 |
| APRIL     | 26.6 | 31.2 | 52.7 | 74.9 | 97.8  | 121.1 | 144.6 | 169.4 | 195.1 | 222.8 | 249.9 | 278.4 | 309.1 | 339.8 | 372.1 |
| MAY       | 27.2 | 31.8 | 53.7 | 76.3 | 99.6  | 123.5 | 147.4 | 172.7 | 198.9 | 227.1 | 254.7 | 283.8 | 315.0 | 346.4 | 379.3 |
| JUNE      | 27.6 | 32.3 | 54.5 | 77.5 | 101.2 | 125.4 | 149.7 | 175.5 | 202.1 | 230.7 | 258.8 | 288.3 | 320.1 | 351.9 | 385.3 |
| JULY      | 27.9 | 32.7 | 55.2 | 78.5 | 102.5 | 127.0 | 151.6 | 177.7 | 204.6 | 233.7 | 262.1 | 292.0 | 324.2 | 356.4 | 390.2 |
| AUGUST    | 28.3 | 33.1 | 55.9 | 79.4 | 103.7 | 128.5 | 153.4 | 179.7 | 206.9 | 236.3 | 265.1 | 295.3 | 327.8 | 360.4 | 394.6 |
| SEPTEMBER | 28.5 | 33.4 | 56.4 | 80.2 | 104.7 | 129.7 | 154.9 | 181.5 | 209.0 | 238.6 | 267.7 | 298.2 | 331.0 | 364.0 | 398.5 |
| OCTOBER   | 28.8 | 33.7 | 56.9 | 80.9 | 105.6 | 130.8 | 156.2 | 183.0 | 210.8 | 240.7 | 269.9 | 300.7 | 333.8 | 367.1 | 401.9 |
| NOVEMBER  | 29.0 | 33.9 | 57.3 | 81.5 | 106.4 | 131.9 | 157.4 | 184.5 | 212.4 | 242.6 | 272.1 | 303.1 | 336.5 | 369.9 | 405.1 |
| DECEMBER  | 29.2 | 34.2 | 57.7 | 82.1 | 107.2 | 132.8 | 158.5 | 185.7 | 213.9 | 244.2 | 274.0 | 305.2 | 338.8 | 372.5 | 407.9 |
| 1981      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 29.4 | 34.4 | 58.1 | 82.6 | 107.9 | 133.6 | 159.5 | 187.0 | 215.3 | 245.8 | 275.7 | 307.2 | 341.0 | 374.9 | 410.5 |
| FEBRUARY  | 29.6 | 34.6 | 58.5 | 83.1 | 108.5 | 134.5 | 160.5 | 188.1 | 216.6 | 247.3 | 277.4 | 309.1 | 343.1 | 377.2 | 413.0 |
| MARCH     | 29.7 | 34.8 | 58.8 | 83.5 | 109.1 | 135.1 | 161.3 | 189.0 | 217.7 | 248.6 | 278.8 | 310.6 | 344.8 | 379.1 | 415.1 |
| APRIL     | 29.9 | 35.0 | 59.1 | 84.0 | 109.6 | 135.8 | 162.2 | 190.0 | 218.8 | 249.9 | 280.3 | 312.2 | 346.6 | 381.1 | 417.3 |
| MAY       | 30.0 | 35.1 | 59.3 | 84.4 | 110.2 | 136.5 | 162.9 | 190.9 | 219.9 | 251.1 | 281.6 | 313.7 | 348.3 | 382.9 | 419.3 |
| JUNE      | 30.2 | 35.3 | 59.6 | 84.7 | 110.7 | 137.1 | 163.7 | 191.8 | 220.9 | 252.2 | 282.9 | 315.2 | 349.9 | 384.7 | 421.2 |
| JULY      | 30.3 | 35.4 | 59.9 | 85.1 | 111.1 | 137.7 | 164.4 | 192.6 | 221.8 | 253.3 | 284.1 | 316.5 | 351.4 | 386.3 | 423.0 |
| AUGUST    | 30.4 | 35.6 | 60.1 | 85.5 | 111.6 | 138.3 | 165.1 | 193.4 | 222.7 | 254.3 | 285.3 | 317.8 | 352.8 | 387.9 | 424.7 |
| SEPTEMBER | 30.5 | 35.7 | 60.4 | 85.8 | 112.0 | 138.8 | 165.7 | 194.2 | 223.6 | 255.3 | 286.4 | 319.1 | 354.2 | 389.4 | 426.4 |
| OCTOBER   | 30.6 | 35.8 | 60.6 | 86.1 | 112.4 | 139.3 | 166.3 | 194.9 | 224.4 | 256.3 | 287.4 | 320.2 | 355.5 | 390.8 | 427.9 |
| NOVEMBER  | 30.8 | 36.0 | 60.8 | 86.4 | 112.8 | 139.8 | 166.9 | 195.6 | 225.2 | 257.2 | 288.5 | 321.4 | 356.8 | 392.2 | 429.5 |
| DECEMBER  | 30.9 | 36.1 | 61.0 | 86.7 | 113.2 | 140.3 | 167.4 | 196.2 | 226.0 | 258.0 | 289.4 | 322.4 | 357.9 | 393.5 | 430.9 |
| 1982      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 31.0 | 36.2 | 61.2 | 87.0 | 113.6 | 140.7 | 168.0 | 196.9 | 226.7 | 258.9 | 290.4 | 323.5 | 359.1 | 394.8 | 432.3 |
| FEBRUARY  | 31.1 | 36.3 | 61.4 | 87.3 | 113.9 | 141.2 | 168.5 | 197.5 | 227.4 | 259.7 | 291.3 | 324.5 | 360.2 | 396.1 | 433.6 |
| MARCH     | 31.1 | 36.4 | 61.5 | 87.5 | 114.3 | 141.6 | 169.0 | 198.0 | 228.0 | 260.4 | 292.1 | 325.4 | 361.2 | 397.1 | 434.8 |
| APRIL     | 31.2 | 36.5 | 61.7 | 87.7 | 114.6 | 142.0 | 169.5 | 198.6 | 228.7 | 261.1 | 292.9 | 326.3 | 362.3 | 398.3 | 436.1 |
| MAY       | 31.3 | 36.6 | 61.9 | 88.0 | 114.9 | 142.4 | 169.9 | 199.1 | 229.3 | 261.8 | 293.7 | 327.2 | 363.2 | 399.4 | 437.3 |
| JUNE      | 31.4 | 36.7 | 62.1 | 88.2 | 115.2 | 142.7 | 170.4 | 199.7 | 229.9 | 262.6 | 294.5 | 328.1 | 364.2 | 400.5 | 438.5 |
| JULY      | 31.5 | 36.8 | 62.2 | 88.4 | 115.5 | 143.1 | 170.8 | 200.2 | 230.5 | 263.2 | 295.3 | 328.9 | 365.2 | 401.5 | 439.6 |
| AUGUST    | 31.6 | 36.9 | 62.4 | 88.7 | 115.8 | 143.5 | 171.3 | 200.7 | 231.1 | 263.9 | 296.0 | 329.8 | 366.1 | 402.5 | 440.7 |
| SEPTEMBER | 31.6 | 37.0 | 62.5 | 88.9 | 116.1 | 143.8 | 171.7 | 201.2 | 231.7 | 264.5 | 296.7 | 330.6 | 367.0 | 403.5 | 441.8 |
| OCTOBER   | 31.7 | 37.1 | 62.7 | 89.1 | 116.3 | 144.2 | 172.1 | 201.6 | 232.2 | 265.1 | 297.4 | 331.3 | 367.8 | 404.4 | 442.8 |
| NOVEMBER  | 31.8 | 37.2 | 62.8 | 89.3 | 116.6 | 144.5 | 172.5 | 202.1 | 232.7 | 265.8 | 298.1 | 332.1 | 368.7 | 405.3 | 443.8 |
| DECEMBER  | 31.9 | 37.3 | 63.0 | 89.5 | 116.9 | 144.8 | 172.8 | 202.5 | 233.2 | 266.3 | 298.7 | 332.8 | 369.5 | 406.2 | 444.8 |
| 1983      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 31.9 | 37.3 | 63.1 | 89.7 | 117.1 | 145.1 | 173.2 | 203.0 | 233.7 | 266.9 | 299.4 | 333.5 | 370.3 | 407.1 | 445.7 |
| FEBRUARY  | 32.0 | 37.4 | 63.2 | 89.9 | 117.4 | 145.4 | 173.6 | 203.4 | 234.2 | 267.5 | 300.0 | 334.3 | 371.1 | 408.0 | 446.7 |
| MARCH     | 32.1 | 37.5 | 63.3 | 90.0 | 117.6 | 145.7 | 173.9 | 203.8 | 234.7 | 268.0 | 300.6 | 334.9 | 371.7 | 408.7 | 447.5 |
| APRIL     | 32.1 | 37.6 | 63.5 | 90.2 | 117.8 | 146.0 | 174.3 | 204.2 | 235.2 | 268.5 | 301.2 | 335.6 | 372.5 | 409.5 | 448.4 |
| MAY       | 32.2 | 37.6 | 63.6 | 90.4 | 118.0 | 146.3 | 174.6 | 204.6 | 235.6 | 269.0 | 301.8 | 336.2 | 373.2 | 410.3 | 449.3 |
| JUNE      | 32.2 | 37.7 | 63.7 | 90.6 | 118.3 | 146.5 | 174.9 | 205.0 | 236.1 | 269.5 | 302.3 | 336.8 | 373.9 | 411.1 | 450.1 |
| JULY      | 32.3 | 37.8 | 63.8 | 90.7 | 118.5 | 146.8 | 175.2 | 205.4 | 236.5 | 270.0 | 302.9 | 337.4 | 374.6 | 411.9 | 450.9 |
| AUGUST    | 32.4 | 37.8 | 63.9 | 90.9 | 118.7 | 147.1 | 175.6 | 205.7 | 236.9 | 270.5 | 303.4 | 338.1 | 375.3 | 412.6 | 451.8 |
| SEPTEMBER | 32.4 | 37.9 | 64.1 | 91.1 | 118.9 | 147.3 | 175.9 | 206.1 | 237.3 | 271.0 | 304.0 | 338.7 | 375.9 | 413.3 | 452.6 |
| OCTOBER   | 32.5 | 38.0 | 64.2 | 91.2 | 119.1 | 147.6 | 176.2 | 206.4 | 237.7 | 271.5 | 304.5 | 339.2 | 376.6 | 414.0 | 453.3 |
| NOVEMBER  | 32.5 | 38.0 | 64.3 | 91.4 | 119.3 | 147.8 | 176.5 | 206.8 | 238.1 | 271.9 | 305.0 | 339.8 | 377.2 | 414.7 | 454.1 |
| DECEMBER  | 32.6 | 38.1 | 64.4 | 91.5 | 119.5 | 148.1 | 176.8 | 207.1 | 238.5 | 272.4 | 305.5 | 340.4 | 377.8 | 415.4 | 454.8 |

**TABLE 1 (continued)**

| CHANNEL # | 1    | 2    | 3    | 4    | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    |
|-----------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1984      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 32.6 | 38.2 | 64.5 | 91.7 | 119.7 | 148.3 | 177.0 | 207.5 | 238.9 | 272.8 | 306.0 | 340.9 | 378.4 | 416.1 | 455.6 |
| FEBRUARY  | 32.7 | 38.2 | 64.6 | 91.8 | 119.9 | 148.6 | 177.3 | 207.8 | 239.3 | 273.2 | 306.5 | 341.5 | 379.1 | 416.8 | 456.3 |
| MARCH     | 32.7 | 38.3 | 64.7 | 91.9 | 120.1 | 148.8 | 177.6 | 208.1 | 239.6 | 273.6 | 306.9 | 342.0 | 379.6 | 417.4 | 457.0 |
| APRIL     | 24.3 | 28.4 | 47.5 | 67.2 | 87.3  | 107.7 | 128.1 | 149.6 | 171.7 | 195.4 | 218.4 | 242.6 | 268.4 | 294.3 | 321.2 |
| MAY       | 24.4 | 28.4 | 47.6 | 67.3 | 87.4  | 107.9 | 128.3 | 149.8 | 171.9 | 195.6 | 218.8 | 242.9 | 268.8 | 294.7 | 321.7 |
| JUNE      | 24.4 | 28.5 | 47.7 | 67.4 | 87.6  | 108.1 | 128.5 | 150.1 | 172.2 | 195.9 | 219.1 | 243.3 | 269.2 | 295.1 | 322.2 |
| JULY      | 24.4 | 28.5 | 47.7 | 67.5 | 87.7  | 108.2 | 128.7 | 150.3 | 172.4 | 196.2 | 219.4 | 243.6 | 269.6 | 295.5 | 322.6 |
| AUGUST    | 24.5 | 28.5 | 47.8 | 67.6 | 87.8  | 108.4 | 128.9 | 150.5 | 172.7 | 196.5 | 219.7 | 244.0 | 270.0 | 296.0 | 323.1 |
| SEPTEMBER | 24.5 | 28.6 | 47.9 | 67.7 | 87.9  | 108.5 | 129.1 | 150.7 | 172.9 | 196.8 | 220.0 | 244.3 | 270.4 | 296.4 | 323.5 |
| OCTOBER   | 24.5 | 28.6 | 47.9 | 67.8 | 88.1  | 108.7 | 129.2 | 150.9 | 173.2 | 197.0 | 220.3 | 244.7 | 270.7 | 296.8 | 324.0 |
| NOVEMBER  | 24.6 | 28.6 | 48.0 | 67.8 | 88.2  | 108.8 | 129.4 | 151.1 | 173.4 | 197.3 | 220.6 | 245.0 | 271.1 | 297.2 | 324.4 |
| DECEMBER  | 24.6 | 28.7 | 48.1 | 67.9 | 88.3  | 109.0 | 129.6 | 151.3 | 173.6 | 197.6 | 220.9 | 245.3 | 271.4 | 297.5 | 324.8 |
| 1985      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 24.6 | 28.7 | 48.1 | 68.0 | 88.4  | 109.1 | 129.7 | 151.5 | 173.8 | 197.8 | 221.2 | 245.6 | 271.8 | 297.9 | 325.2 |
| FEBRUARY  | 24.7 | 28.8 | 48.2 | 68.1 | 88.5  | 109.2 | 129.9 | 151.7 | 174.1 | 198.1 | 221.5 | 245.9 | 272.2 | 298.3 | 325.7 |
| MARCH     | 24.7 | 28.8 | 48.2 | 68.2 | 88.6  | 109.4 | 130.0 | 151.9 | 174.3 | 198.3 | 221.7 | 246.2 | 272.5 | 298.7 | 326.0 |
| APRIL     | 24.7 | 28.8 | 48.3 | 68.3 | 88.7  | 109.5 | 130.2 | 152.0 | 174.5 | 198.5 | 222.0 | 246.5 | 272.8 | 299.0 | 326.4 |
| MAY       | 24.7 | 28.9 | 48.4 | 68.4 | 88.8  | 109.6 | 130.4 | 152.2 | 174.7 | 198.8 | 222.3 | 246.8 | 273.1 | 299.4 | 326.8 |
| JUNE      | 24.8 | 28.9 | 48.4 | 68.4 | 88.9  | 109.8 | 130.5 | 152.4 | 174.9 | 199.0 | 222.5 | 247.1 | 273.5 | 299.7 | 327.2 |
| JULY      | 24.8 | 28.9 | 48.5 | 68.5 | 89.1  | 109.9 | 130.7 | 152.6 | 175.1 | 199.2 | 222.8 | 247.4 | 273.8 | 300.1 | 327.6 |
| AUGUST    | 24.8 | 29.0 | 48.5 | 68.6 | 89.2  | 110.0 | 130.8 | 152.8 | 175.3 | 199.5 | 223.0 | 247.7 | 274.1 | 300.4 | 328.0 |
| SEPTEMBER | 24.9 | 29.0 | 48.6 | 68.7 | 89.3  | 110.1 | 131.0 | 152.9 | 175.5 | 199.7 | 223.3 | 248.0 | 274.4 | 300.8 | 328.3 |
| OCTOBER   | 24.9 | 29.0 | 48.6 | 68.7 | 89.4  | 110.3 | 131.1 | 153.1 | 175.7 | 199.9 | 223.5 | 248.3 | 274.7 | 301.1 | 328.7 |
| NOVEMBER  | 24.9 | 29.1 | 48.7 | 68.8 | 89.5  | 110.4 | 131.3 | 153.3 | 175.9 | 200.1 | 223.8 | 248.5 | 275.0 | 301.5 | 329.1 |
| DECEMBER  | 24.9 | 29.1 | 48.7 | 68.9 | 89.6  | 110.5 | 131.4 | 153.4 | 176.1 | 200.4 | 224.0 | 248.8 | 275.3 | 301.8 | 329.4 |
| 1986      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 25.0 | 29.1 | 48.8 | 69.0 | 89.6  | 110.6 | 131.5 | 153.6 | 176.3 | 200.6 | 224.3 | 249.1 | 275.6 | 302.1 | 329.8 |
| FEBRUARY  | 25.0 | 29.2 | 48.8 | 69.0 | 89.7  | 110.7 | 131.7 | 153.8 | 176.5 | 200.8 | 224.5 | 249.3 | 275.9 | 302.4 | 330.1 |
| MARCH     | 25.0 | 29.2 | 48.9 | 69.1 | 89.8  | 110.8 | 131.8 | 153.9 | 176.6 | 201.0 | 224.7 | 249.6 | 276.2 | 302.7 | 330.5 |
| APRIL     | 25.0 | 29.2 | 48.9 | 69.2 | 89.9  | 111.0 | 132.0 | 154.1 | 176.8 | 201.2 | 225.0 | 249.8 | 276.5 | 303.0 | 330.8 |
| MAY       | 25.1 | 29.2 | 49.0 | 69.3 | 90.0  | 111.1 | 132.1 | 154.2 | 177.0 | 201.4 | 225.2 | 250.1 | 276.7 | 303.3 | 331.1 |
| JUNE      | 25.1 | 29.3 | 49.0 | 69.3 | 90.1  | 111.2 | 132.2 | 154.4 | 177.2 | 201.6 | 225.4 | 250.3 | 277.0 | 303.6 | 331.5 |
| JULY      | 25.1 | 29.3 | 49.1 | 69.4 | 90.2  | 111.3 | 132.3 | 154.5 | 177.3 | 201.8 | 225.6 | 250.6 | 277.3 | 303.9 | 331.8 |
| AUGUST    | 25.1 | 29.3 | 49.1 | 69.5 | 90.3  | 111.4 | 132.5 | 154.7 | 177.5 | 202.0 | 225.9 | 250.8 | 277.6 | 304.2 | 332.1 |
| SEPTEMBER | 25.2 | 29.4 | 49.2 | 69.5 | 90.4  | 111.5 | 132.6 | 154.8 | 177.7 | 202.2 | 226.1 | 251.1 | 277.8 | 304.5 | 332.4 |
| OCTOBER   | 25.2 | 29.4 | 49.2 | 69.6 | 90.5  | 111.6 | 132.7 | 155.0 | 177.9 | 202.4 | 226.3 | 251.3 | 278.1 | 304.8 | 332.8 |
| NOVEMBER  | 25.2 | 29.4 | 49.3 | 69.7 | 90.5  | 111.7 | 132.9 | 155.1 | 178.0 | 202.6 | 226.5 | 251.5 | 278.4 | 305.1 | 333.1 |
| DECEMBER  | 25.2 | 29.4 | 49.3 | 69.7 | 90.6  | 111.8 | 133.0 | 155.3 | 178.2 | 202.8 | 226.7 | 251.8 | 278.6 | 305.4 | 333.4 |
| 1987      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |
| JANUARY   | 25.3 | 29.5 | 49.4 | 69.8 | 90.7  | 111.9 | 133.1 | 155.4 | 178.4 | 203.0 | 226.9 | 252.0 | 278.9 | 305.7 | 333.7 |
| FEBRUARY  | 25.3 | 29.5 | 49.4 | 69.9 | 90.8  | 112.0 | 133.2 | 155.6 | 178.5 | 203.1 | 227.1 | 252.2 | 279.1 | 306.0 | 334.0 |
| MARCH     | 25.3 | 29.5 | 49.5 | 69.9 | 90.9  | 112.1 | 133.3 | 155.7 | 178.7 | 203.3 | 227.3 | 252.5 | 279.4 | 306.2 | 334.3 |
| APRIL     | 25.3 | 29.5 | 49.5 | 70.0 | 91.0  | 112.2 | 133.5 | 155.8 | 178.8 | 203.5 | 227.5 | 252.7 | 279.6 | 306.5 | 334.6 |
| MAY       | 25.4 | 29.6 | 49.5 | 70.0 | 91.0  | 112.3 | 133.6 | 156.0 | 179.0 | 203.7 | 227.7 | 252.9 | 279.8 | 306.8 | 334.9 |
| JUNE      | 25.4 | 29.6 | 49.6 | 70.1 | 91.1  | 112.4 | 133.7 | 156.1 | 179.1 | 203.8 | 227.9 | 253.1 | 280.1 | 307.0 | 335.2 |
| JULY      | 25.4 | 29.6 | 49.6 | 70.2 | 91.2  | 112.5 | 133.8 | 156.2 | 179.3 | 204.0 | 228.1 | 253.3 | 280.3 | 307.3 | 335.4 |
| AUGUST    | 25.4 | 29.7 | 49.7 | 70.2 | 91.3  | 112.6 | 133.9 | 156.4 | 179.4 | 204.2 | 228.3 | 253.6 | 280.6 | 307.5 | 335.7 |
| SEPTEMBER | 25.4 | 29.7 | 49.7 | 70.3 | 91.3  | 112.7 | 134.0 | 156.5 | 179.6 | 204.4 | 228.5 | 253.8 | 280.8 | 307.8 | 336.0 |
| OCTOBER   | 25.5 | 29.7 | 49.8 | 70.3 | 91.4  | 112.8 | 134.1 | 156.6 | 179.7 | 204.5 | 228.7 | 254.0 | 281.0 | 308.1 | 336.3 |
| NOVEMBER  | 25.5 | 29.7 | 49.8 | 70.4 | 91.5  | 112.9 | 134.3 | 156.8 | 179.9 | 204.7 | 228.9 | 254.2 | 281.3 | 308.3 | 336.6 |
| DECEMBER  | 25.5 | 29.7 | 49.8 | 70.4 | 91.6  | 113.0 | 134.4 | 156.9 | 180.0 | 204.9 | 229.1 | 254.4 | 281.5 | 308.6 | 336.8 |

TABLE 2

Dates, times, and energy ranges for periods when different amplifier gain settings were used resulting in channel edges that differ from those in Table 1. The individual channel edges divide the full energy range in the same ratios as in Table 1.

| Start Time (UT)<br>YY/MM/DD HHMM | End Time (UT)<br>YY/MM/DD HHMM | Energy Range (keV) |         |
|----------------------------------|--------------------------------|--------------------|---------|
| 81/03/09 1607                    | 81/03/12 1542                  | 12.6               | - 194.2 |
| 81/03/12 1542                    | 81/03/18 2134                  | 106.4              | - 1332. |
| 81/03/18 2134                    | 81/03/23 1911                  | 43.5               | - 790.9 |
| 83/01/05 2111                    | 83/01/07 1715                  | 13.6               | - 209.  |
| 83/09/08 1828                    | 83/09/16 2110                  | 13.8               | - 212.  |
| 84/04/15 0710                    | 84/04/17 1808                  | 32.8               | - 574.9 |
| 84/04/17 1808                    | 84/04/19 2220                  | 13.9               | - 214.4 |
| 86/10/27 1655                    | 86/10/29 2104                  | 14.4               | - 222.2 |
| 87/02/10 1648                    | 87/02/12 2020                  | 14.5               | - 222.9 |
| 87/02/13 1525                    | 87/02/16 2230                  | 14.5               | - 222.9 |
| 87/02/17 0334                    | 87/02/19 2140                  | 14.5               | - 222.9 |
| 87/02/20 0212                    | 87/02/24 1922                  | 14.5               | - 222.9 |
| 87/04/28 1941                    | 87/04/30 1926                  | 14.5               | - 223.4 |
| 87/04/30 1926                    | 87/05/05 1315                  | 122.3              | - 1531. |
| 87/09/03 1531                    | 87/09/04 1824                  | 14.6               | - 224.2 |
| 87/12/07 1839                    | 87/12/08 1809                  | 14.6               | - 224.8 |

TABLE 3

Time resolution of on-board 32-K word memory.

| Start Time (UT)<br>YY/MM/DD HHMM | End Time (UT)<br>YY/MM/DD HHMM | Time Resolution (ms)          |
|----------------------------------|--------------------------------|-------------------------------|
| Launch                           | 82/04/22 2126                  | 10                            |
| 82/04/22 2126                    | 82/06/08 1609                  | 10 during night, 1 during day |
| 82/06/08 1609                    | 84/04/27 1355                  | 10 during night, 5 during day |
| 84/04/27 1355                    | 85/06/28 1658                  | 10                            |
| 85/06/28 1658                    | 86/02/04 1944                  | 5                             |
| 86/02/04 1944                    | 86/06/02 2140                  | 10                            |
| 86/06/02 2140                    | 86/12/09 2224                  | 5                             |
| 86/12/09 2224                    | 87/07/24 2049                  | 1                             |
| 87/07/24 2049                    | 87/11/19 1646                  | 10                            |
| 87/11/19 1646                    | present                        | 1                             |

amplifier gain settings were used either for specific scientific observations or for special instrument calibration tests.

In addition to the spectral data every 128 ms, counting rate data for many of the larger flares is available with finer time resolution from the on-board circulating 32K-word memory. When the central detector counting rate exceeds a preset threshold level, the number of counts with a pulse-height between the bottom edge of Channel 1 and the top edge of Channel 15 is recorded in each fine time interval,  $\Delta t$ . This threshold level is ground commandable and has been set at values ranging from 400 - 1000 counts  $s^{-1}$  during the mission. The value of  $\Delta t$  is also commandable. The values used to date have been 10 ms, 5 ms, and 1 ms, giving data sets that are 5 minutes, 2.5 minutes, and 32 seconds long, respectively. Table 3 shows the memory time resolution used in different intervals during the mission. In each case, 13K words are pre-flare count samples and 19K words are post-flare count samples. In normal operations, data for only one such interval can be stored each satellite day and read out at the start of spacecraft night or during passage through the South Atlantic Anomaly.

The absolute time of all counting rate data, including the memory data, is known to an accuracy of a few milliseconds (except where noted in the listing), thus allowing detailed comparisons with other contemporary observations.

## EVENT DETECTION

Most of the events in this listing were discovered in the HXRBS data within a day after the observation. In normal operations, an average of about 90% of the SMM data is received at the Experimenters Operations Facility (EOF) at Goddard Space Flight Center a few hours after data transmission to the various ground stations. This percentage has, on occasion, dropped significantly. The HXRBS data is stripped from the total bit stream and stored on a large disc capable of holding 24 hours of data. The oldest 10 hours of data on the disc is automatically written onto a magnetic tape (at 800 bpi) every 10 hours and the tapes are kept as archival records. (After December 1980, the archive tape format was modified so that each tape contains 18 hours of data). The 24-hour data base is scanned each day for flares by plotting the counting rate in Channel 2 as a function of time with 16s time resolution. Other rates from the different parts of the instrument are plotted on the same graph, and hard copies of these housekeeping plots, one orbit per page, are saved as a permanent record. A typical example of such a plot for one orbit on 1980 November 6 is shown in Figure 2. Two flares can be seen in this plot during the daytime part of the satellite orbit. They are most clearly seen in the Channel 2 rate

SMM/HXRBS

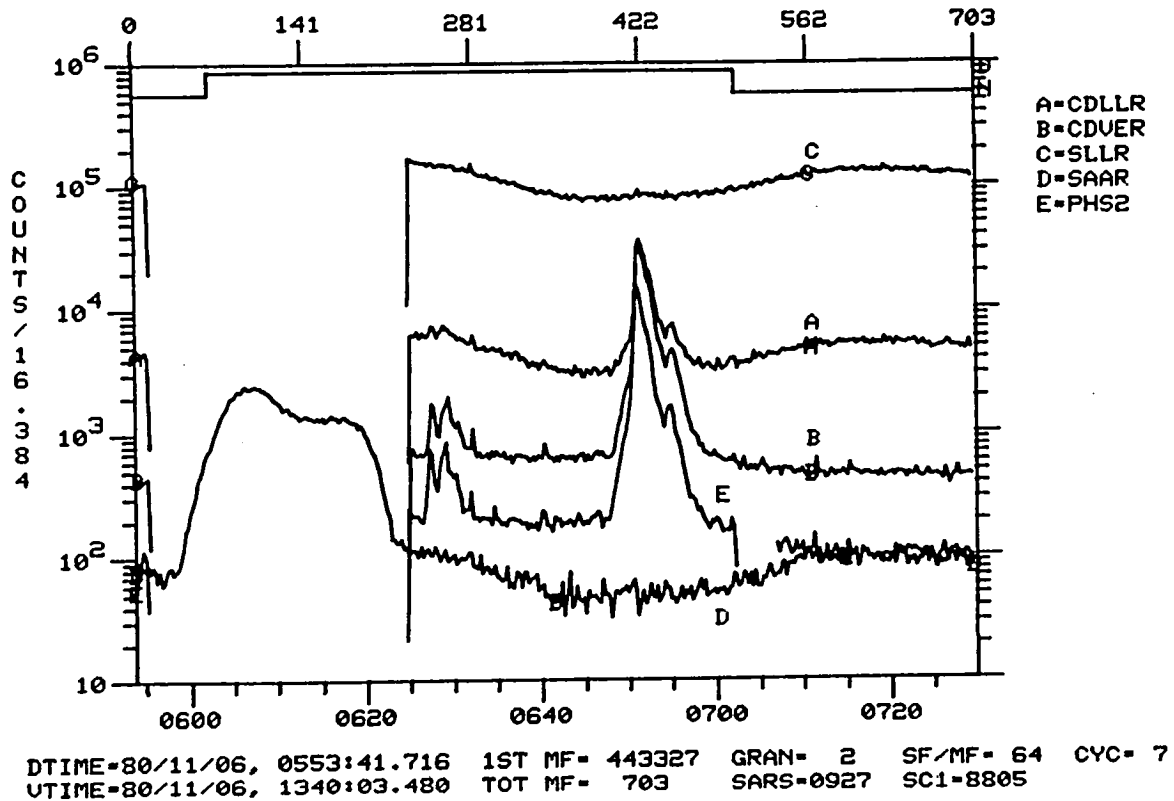


FIGURE 2. An example of a standard housekeeping plot containing counting rates versus Universal Time for one orbit. The following five counting rates, labelled A through E, are plotted with a time resolution of 16.384 s: A and B are central detector counting rates, C is a shield rate, D is the counting rate in the charged-particle monitor, and E is the counting rate of X-ray events in pulse-height analyzer Channel 2. The double-peaked curve in the plot between 0600 and 0620 UT is the charged-particle rate in the South Atlantic Anomaly, when the primary high voltages were turned off causing the other rates to go to zero. The horizontal straight lines at two levels near the top of the plot indicate the day (upper line) and night (lower line) parts of the orbit.

marked 'E' but they are also evident in the other two central detector rates marked 'A' and 'B'. One flare starts at 0626 UT and is HXRBS event #1544 and the other starts at 0647 UT and is HXRBS event #1545.

During the systematic search through the HXRBS data, any significant increase in the Channel 2 counting rate above the average background level is examined with finer time resolution and recorded as an event unless it lasted for only one 128 ms interval. Such single-interval spikes are believed to be instrumental in origin and occur a few times per orbit on average. They most probably result from cosmic-ray interactions in the central detector which release so much energy that the anticoincidence electronics fails to completely reject the very large pulses generated. A flare which produces a 10% increase in counting rate lasting for a few seconds can be reliably detected above the  $\sim 12 \text{ counts s}^{-1}$  background rate in Channel 2. This corresponds to a detection threshold level of  $\sim 10^{-3} \text{ photons cm}^{-2} \text{ s}^{-1} \text{ keV}^{-1}$  at 30 keV.

Once an event has been discovered in this way, a standard plot of counting rate versus time is made with the counts in all 15 channels added together. Generally, a time resolution of 1.024s is used for this plot with a time scale of 1 or 2 minutes per inch depending on the duration of the event. Hard copies of these plots are saved as a permanent record; an example is shown in Figure 3. In addition, photographic copies of these particular plots are produced on microfiche, as mentioned in the Introduction.

Each legitimate event is given a number, referred to as the HXRBS event number, that uniquely identifies the burst. The event numbers generally follow a chronological sequence as most events were identified within 24 hours of their occurrence. Many bursts, however, were only discovered several months later upon scanning through the complete data set provided on magnetic tape by the Information Processing Division (IPD) at GSFC. These IPD flares are marked in the listing with the letter 'I', and their event numbers are generally not in chronological sequence. All IPD tapes through December 1987 have been searched and the flares are included in this listing. Therefore, this listing is a complete catalog of HXRBS events through 1987.

## THE EVENT LISTING

The HXRBS event number, the start time, the peak time and the duration are given for every event in the listing. These times are generally accurate to  $\sim 5 \text{ s}$ . The peak counting rate summed over all 15 channels is also listed. This rate is obtained from a rate-versus-time plot with a time resolution of 1.024 s. It is the total rate

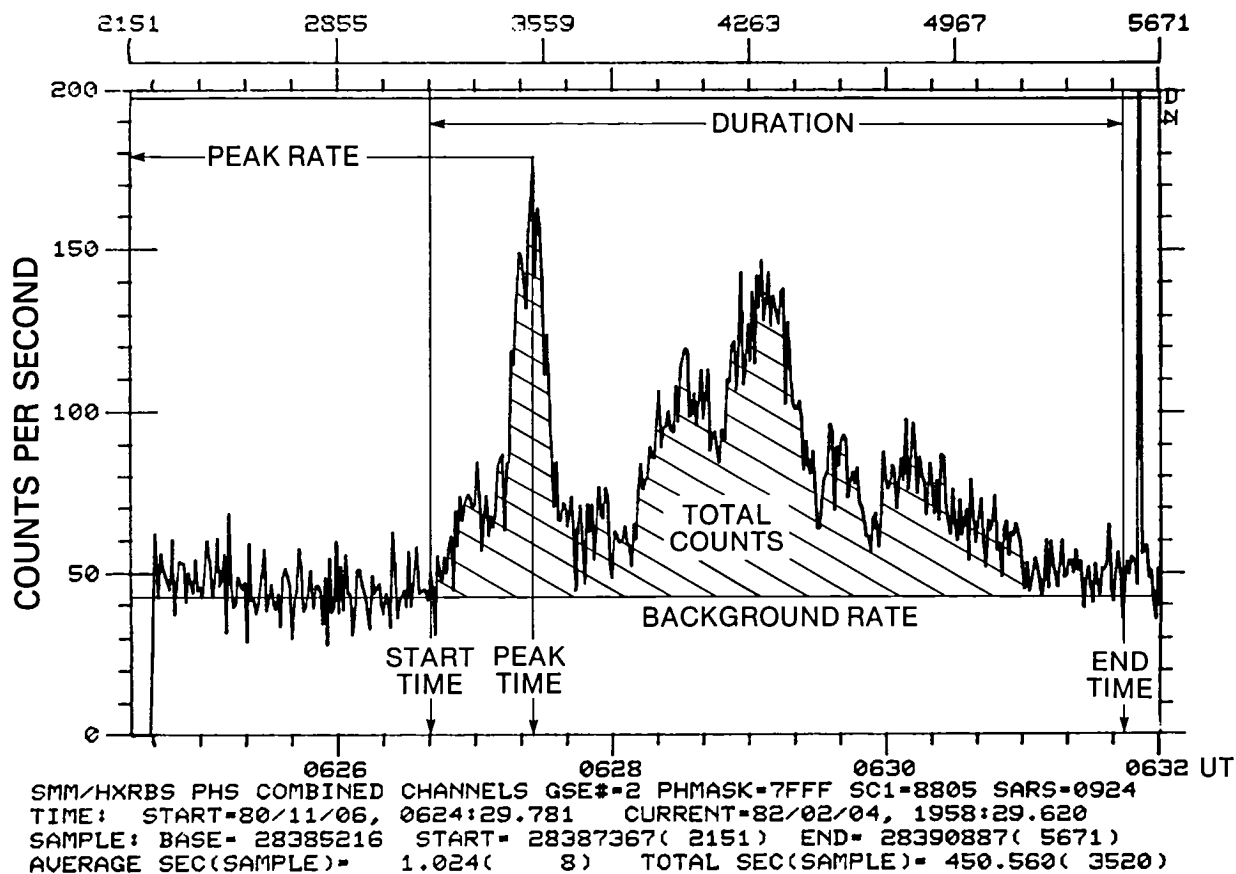


FIGURE 3. A standard plot of a hard X-ray burst (HXRBS event #1544) showing the rate of counts in Channels 1 through 15 versus Universal Time. The time resolution is 1.024 s, the time scale is 1 inch per minute, and the counting rate is corrected for instrumental dead time. The start time, peak time, duration, peak rate and total number of counts are indicated as they are determined for inclusion in the event listing.



including the pre-flare background rate of  $\sim 40$  counts  $s^{-1}$  as indicated in Figure 3. The number of the highest channel showing any increase in rate above background is also listed to give an idea of the X-ray spectral hardness of the event. This highest channel number is only approximate and is generally recorded as 2, 5, 10 or 15. The X-ray energy losses (in keV) in the CsI(Na) central detector crystal corresponding to these channels can be obtained from Table 1.

For the larger flares, i.e. those with peak rates exceeding 100 counts  $s^{-1}$  and/or durations of greater than 200 s, the integrated total number of counts in excess of the pre-flare background recorded during the flare is also listed. This gives an indication of the overall size of the burst. Data for these larger flares are written to individual files on 800 bpi flare tapes; the tape and file numbers are included in the listing for easy access to the data. (After October 1986, all flares regardless of size were written onto flare tapes.) These 800 bpi tapes (about 260 tapes) were later compressed onto twenty 6250 bpi tapes; a chart in the HXRBS computer room provides a cross-reference for tape numbers between the 800 bpi tapes and the 6250 bpi tapes.

The event listing is arranged in chronological order with one line per event. Each column is labelled at the top of each page with the following column headings:

1. HXRBS EVENT# - a number which uniquely identifies each event. An asterisk preceding the event number indicates that a note about that event is included at the end of the listing.
2. DOY - the day of the year in which the flare occurred, with January 1st as day one.
3. DATE expressed as year/month/day.
4. START TIME expressed as hour minute:second.
5. DURATION of the event in seconds.
6. PEAK RATE in counts per second. This is the total rate in the full energy range covered by the instrument (Channels 1-15) and does not have the preflare background rate subtracted (see Figure 2).
7. TOTAL COUNTS - the integrated number of counts detected with HXRBS during the flare, in excess of the pre-flare rate (see Figure 2).
8. MAX. CH.# - the highest channel showing any increase in rate during the flare. See Table 1 for the energy range of each channel.
9. FLARE TAPE #, FILE # - the tape and file numbers identifying the location of the event data on the HXRBS 800 bpi flare tapes.
10. FLAGS. The definitions of the letters in this column are as follows:  
 M Memory data available with 10 ms time resolution.  
 M1 Memory data available with 1 ms time resolution.  
 M5 Memory data available with 5 ms time resolution.

- I    Event discovered well after the event time, in data on tapes provided by the GSFC Information Processing Division.
- SN   Event started in spacecraft night.
- EN   Event ended in spacecraft night.
- IN   Event interrupted by spacecraft night.
- SA   Event started when SMM was in the South Atlantic Anomaly (SAA).
- ES   Event ended when SMM was in the SAA.
- IS   Event interrupted by the SAA.
- SG   Event started in a data gap.
- EG   Event ended in a data gap.
- DG   Data gaps during event.
- AX   Event is probably the result of passage through trapped charged particles.
- ND   Noisy data
- NS   Possible non-solar gamma-ray burst.
- FS   Event contains one or more fast spikes with  $< 1$  s duration.
- EW   Experiment status file contains wrong on-time information.

A separate table of the largest events detected with peak counting rates greater than 10,000 counts  $s^{-1}$  is included in this document following the main listing.

## ACKNOWLEDGEMENTS

HXRBS was made possible by the efforts of many people previously acknowledged by Orwig et al.(1980). We are grateful to Ken Frost, who served as HXRBS Principal Investigator and SMM Project Scientist until 1983, and to Tom Chewning and Harold Dennis, who were responsible for the basic design and implementation of the computer system and software used for data collection and analysis. The following people contributed significantly to the collection of the data in this flare index: John Bonomo, Kathryn Lesh, Maya Yodh, Bob Hindsley, Shawna Brooks, Theresa Gallo, and Steve Graham. We are also grateful to Gloria Wharen for preparing the introduction to this document, to our Sperry-Univac V-77 and VAX 11/750 computers for processing the data, and to our QMS laser printer for producing the listing.

## REFERENCES

- Orwig, L.E., Frost, K.J., and Dennis, B.R. 1980, Solar Physics, 65, 25.
- Pryor, L.H., Pierce, M.J., Speich, D.M., Fesq, L.M., Spear, K.A., Nelson, J.J., and McGovern, J.G. 1981, Solar Maximum Mission Event Listing, Internal document, NASA, GSFC.
- Tolbert, A.K. 1985, SMM Binary Flare Index Description and Software User's Guide.

**This Page Intentionally Left Blank**

THE HXRBS EVENT LISTING

February 1980 to December 1987

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1              | 50  | 80/02/19                  | 0746:50                  | 0749:35                 | 522             | 177                 | 20080           | 3               | 1, 1                     |       |
| 2              | 52  | 80/02/21                  | 0321:21                  | 0322:00                 | 77              | 210                 | 13967           | 3               | 1, 2                     |       |
| 4              | 52  | 80/02/21                  | 0447:03                  | 0447:38                 | 51              | 67                  |                 | 2               | 1, 3                     |       |
| 3              | 52  | 80/02/21                  | 1712:40                  | 1712:45                 | 40              | 65                  |                 | 2               | 1, 4                     |       |
| 5              | 53  | 80/02/22                  | 1902:00                  | 1904:35                 | 180             | 145                 | 3817            | 2               |                          |       |
| 6              | 55  | 80/02/24                  | 0506:44                  | 0508:20                 | 170             | 184                 | 5716            | 3               | 1, 6                     |       |
| 7              | 55  | 80/02/24                  | 0918:10                  | 0919:14                 | 75              | 99                  |                 | 2               | 1, 7                     |       |
| 8              | 56  | 80/02/25                  | 1715:20                  | 1716:50                 | 160             | 68                  |                 | 2               | 1, 8                     |       |
| 9              | 56  | 80/02/25                  | 2202:20                  | 2202:40                 | 30              | 78                  |                 | 2               | 1, 9                     |       |
| 11             | 57  | 80/02/26                  | 0027:05                  | 0027:25                 | 30              | 242                 | 2338            | 3               | 1, 11                    | ES    |
| 10             | 57  | 80/02/26                  | 0320:50                  | 0321:30                 | 90              | 88                  |                 | 2               | 1, 10                    |       |
| 12             | 57  | 80/02/26                  | 1859:00                  | 1900:10                 | 160             | 77                  |                 | 2               | 1, 12                    |       |
| 13             | 58  | 80/02/27                  | 0338:40                  | 0341:50                 | 409             | 227                 | 24691           | 3               | 1, 13                    | EN    |
| 14             | 58  | 80/02/27                  | 1303:30                  | 1304:30                 | 60              | 62                  | 705             | 2               |                          | EW    |
| 15             | 58  | 80/02/27                  | 2238:10                  | 2238:15                 | 15              | 60                  |                 | 2               | 1, 15                    |       |
| 16             | 59  | 80/02/28                  | 0116:55                  | 0117:00                 | 10              | 66                  |                 | 2               | 1, 16                    |       |
| 17             | 59  | 80/02/28                  | 1412:20                  | 1412:27                 | 15              | 58                  |                 | 2               | 2, 1                     |       |
| 18             | 60  | 80/02/29                  | 0733:10                  | 0733:46                 | 60              | 176                 | 3091            | 3               | 2, 2                     |       |
| 19             | 62  | 80/03/02                  | 0306:48                  | 0306:52                 | 50              | 84                  |                 | 2               | 2, 3                     |       |
| 20             | 62  | 80/03/02                  | 0446:10                  | 0446:40                 | 100             | 56                  |                 | 2               | 2, 4                     |       |
| 21             | 62  | 80/03/02                  | 1905:20                  | 1905:40                 | 45              | 160                 | 2311            | 3               | 2, 5                     |       |
| 22             | 63  | 80/03/03                  | 2050:25                  | 2051:30                 | 90              | 160                 | 3708            | 4               | 2, 6                     |       |
| 23             | 64  | 80/03/04                  | 0121:53                  | 0122:02                 | 150             | 90                  | 1273            | 2               | 2, 7                     |       |
| 24             | 65  | 80/03/05                  | 2207:10                  | 2208:20                 | 70              | 55                  | 270             | 2               | 2, 8                     |       |
| 25             | 65  | 80/03/05                  | 2330:40                  | 2331:00                 | 330             | 99                  | 7487            | 2               | 2, 9                     |       |
| 26             | 66  | 80/03/06                  | 0419:00                  | 0421:20                 | 420             | 100                 | 6370            | 2               | 2, 10                    |       |
| 27             | 67  | 80/03/07                  | 0507:40                  | 0508:25                 | 47              | 129                 | 1690            | 7               | 2, 11                    | NS    |
| 28             | 69  | 80/03/09                  | 0435:50                  | 0436:30                 | 170             | 65                  | 847             | 2               | 2, 12                    |       |
| 29             | 70  | 80/03/10                  | 2226:20                  | 2227:10                 | 160             | 62                  | 510             | 2               | 2, 13                    |       |
| 4271           | 73  | 80/03/13                  | 1445:20                  | 1445:45                 | 220             | 138                 | 15000           | 5               | 143, 13                  | I     |
| 31             | 73  | 80/03/13                  | 2158:00                  | 2201:20                 | 540             | 105                 | 13800           | 5               | 2, 15                    | AX    |
| 32             | 74  | 80/03/14                  | 1113:50                  | 1114:00                 | 50              | 71                  | 100             | 2               | 3, 1                     |       |
| 33             | 74  | 80/03/14                  | 2156:10                  | 2158:00                 | 660             | 119                 | 18543           | 6               | 3, 2                     | AX    |
| 4272           | 75  | 80/03/15                  | 2017:35                  | 2020:15                 | 235             | 76                  |                 | 5               | 143, 14                  | I     |
| 34             | 75  | 80/03/15                  | 2155:16                  | 2156:57                 | 540             | 120                 | 16114           | 5               | 3, 3                     | AX    |
| 36             | 76  | 80/03/16                  | 2016:09                  | 2018:47                 | 540             | 80                  |                 | 4               | 3, 5                     | AX,EW |
| 37             | 77  | 80/03/17                  | 1445:47                  | 1446:20                 | 60              | 95                  | 741             | 2               | 3, 6                     |       |
| 38             | 78  | 80/03/18                  | 2324:30                  | 2325:00                 | 100             | 70                  | 100             | 2               | 3, 7                     |       |
| 39             | 79  | 80/03/19                  | 0319:20                  | 0319:40                 | 40              | 72                  |                 | 2               | 3, 8                     |       |
| 40             | 79  | 80/03/19                  | 0805:45                  | 0806:40                 | 145             | 4460                | 68580           | 9               | 3, 9                     | M     |
| 41             | 79  | 80/03/19                  | 1436:30                  | 1440:20                 | 370             | 135                 | 3930            | 2               | 3, 11                    |       |
| 42             | 79  | 80/03/19                  | 1736:00                  | 1737:20                 | 320             | 130                 | 5300            | 2               | 3, 12                    |       |
| 43             | 81  | 80/03/21                  | 0134:55                  | 0135:20                 | 45              | 64                  |                 | 2               | 3, 13                    |       |
| 4266           | 81  | 80/03/21                  | 1356:20                  | 1356:40                 | 180             | 68                  |                 | 2               |                          | I     |
| 44             | 83  | 80/03/23                  | 1658:10                  | 1658:10                 | 600             | 95                  |                 | 3               | 3, 14                    | SN    |
| 45             | 83  | 80/03/23                  | 1921:00                  | 1921:40                 | 100             | 180                 | 2660            | 3               | 3, 15                    |       |
| 46             | 84  | 80/03/24                  | 0804:30                  | 0805:20                 | 75              | 490                 | 12800           | 4               | 4, 1                     |       |
| 47             | 84  | 80/03/24                  | 1358:05                  | 1358:25                 | 40              | 370                 | 2261            | 4               | 4, 2                     |       |
| 48             | 84  | 80/03/24                  | 1528:40                  | 1529:00                 | 40              | 120                 | 1106            | 2               | 4, 3                     |       |
| 30             | 84  | 80/03/24                  | 1535:40                  | 1536:00                 | 70              | 75                  |                 | 2               | 4, 3                     |       |
| 49             | 85  | 80/03/25                  | 0124:00                  | 0124:30                 | 60              | 68                  |                 | 2               | 4, 4                     |       |
| 50             | 85  | 80/03/25                  | 0149:30                  | 0149:50                 | 270             | 130                 | 2392            | 3               | 4, 5                     |       |
| 51             | 85  | 80/03/25                  | 0426:00                  | 0428:30                 | 190             | 520                 | 25760           | 8               | 4, 6                     |       |
| 52             | 85  | 80/03/25                  | 0449:37                  | 0449:40                 | 30              | 78                  |                 | 3               | 4, 6                     |       |
| 53             | 85  | 80/03/25                  | 1350:00                  | 1353:00                 | 240             | 65                  | 1622            | 2               | 4, 7                     |       |
| 54             | 85  | 80/03/25                  | 1405:10                  | 1405:27                 | 30              | 63                  | 254             | 2               | 4, 7                     |       |
| 55             | 85  | 80/03/25                  | 1716:40                  | 1717:40                 | 130             | 265                 | 5800            | 7               | 4, 8                     |       |
| 56             | 85  | 80/03/25                  | 1924:30                  | 1924:35                 | 40              | 110                 | 1200            | 3               | 4, 9                     |       |
| 59             | 85  | 80/03/25                  | 2043:00                  | 2050:20                 | 1080            | 80                  | 5538            | 2               | 4, 12                    |       |
| 57             | 85  | 80/03/25                  | 2200:50                  | 2202:00                 | 100             | 95                  |                 | 3               | 4, 10                    |       |
| 58             | 86  | 80/03/26                  | 0002:30                  | 0007:20                 | 400             | 700                 | 48383           | 11              | 4, 11                    |       |
| 60             | 86  | 80/03/26                  | 1419:50                  | 1421:03                 | 160             | 400                 | 17675           | 8               | 4, 13                    | ND    |
| 61             | 86  | 80/03/26                  | 2202:30                  | 2205:10                 | 300             | 60                  |                 | 2               | 5, 1                     |       |
| 62             | 86  | 80/03/26                  | 2338:00                  | 2338:45                 | 240             | 90                  |                 | 3               | 5, 2                     |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|-------------------------|-------|
| 63             | 87  | 80/03/27                  | 0413:00                  | 0419:20                 | 1000            | 78                  |                 | 2               | 5, 3                    | SA    |
| 64             | 87  | 80/03/27                  | 0740:30                  | 0741:20                 | 60              | 110                 | 1228            | 3               | 5, 4                    |       |
| 65             | 87  | 80/03/27                  | 0950:30                  | 0951:20                 | 110             | 79                  | 1424            | 2               | 5, 5                    |       |
| 66             | 87  | 80/03/27                  | 1045:20                  | 1046:30                 | 220             | 92                  | 2188            | 3               | 5, 6                    |       |
| 67             | 87  | 80/03/27                  | 1217:00                  | 1259:00                 | 3120            | 700                 | 3.70E+05        | 11              | 5, 7                    | EN    |
| 68             | 87  | 80/03/27                  | 1837:30                  | 1839:20                 | 1080            | 6000                | 3.25E+05        | 11              | 5, 8                    |       |
| 69             | 87  | 80/03/27                  | 2030:10                  | 2030:40                 | 100             | 260                 | 4184            | 7               | 5, 9                    |       |
| 70             | 87  | 80/03/27                  | 2146:00                  | 2146:20                 | 40              | 400                 | 4400            | 6               | 5, 10                   |       |
| 71             | 88  | 80/03/28                  | 0636:20                  | 0638:20                 | 180             | 71                  | 1080            | 2               | 5, 11                   |       |
| 72             | 88  | 80/03/28                  | 0911:40                  | 0912:10                 | 80              | 94                  | 1040            | 4               | 5, 12                   |       |
| 73             | 88  | 80/03/28                  | 0947:50                  | 0948:50                 | 70              | 85                  | 700             | 4               | 5, 13                   |       |
| 74             | 88  | 80/03/28                  | 0954:20                  | 0956:30                 | 160             | 4100                | 1.20E+05        | 12              | 5, 13                   | M     |
| 75             | 88  | 80/03/28                  | 2007:50                  | 2008:20                 | 720             | 65                  |                 | 2               | 6, 1                    | SN    |
| 76             | 88  | 80/03/28                  | 2053:20                  | 2053:55                 | 100             | 170                 | 4162            | 4               | 6, 2                    |       |
| 77             | 88  | 80/03/28                  | 2157:20                  | 2159:10                 | 500             | 3000                | 2.57E+05        | 12              | 6, 3                    | FS    |
| 78             | 89  | 80/03/29                  | 0109:00                  | 0111:00                 | 360             | 77                  | 1966            | 3               | 6, 4                    |       |
| 79             | 89  | 80/03/29                  | 0125:00                  | 0125:30                 | 120             | 70                  |                 | 2               | 6, 4                    |       |
| 80             | 89  | 80/03/29                  | 0329:10                  | 0329:30                 | 150             | 280                 | 3031            | 6               | 6, 5                    |       |
| 81             | 89  | 80/03/29                  | 0436:50                  | 0437:20                 | 50              | 100                 | 508             | 2               | 6, 6                    |       |
| 82             | 89  | 80/03/29                  | 0446:40                  | 0447:00                 | 30              | 97                  | 410             | 3               | 6, 6                    |       |
| 83             | 89  | 80/03/29                  | 0554:50                  | 0555:40                 | 290             | 109                 | 3038            | 4               | 6, 7                    |       |
| 84             | 89  | 80/03/29                  | 0603:50                  | 0604:10                 | 40              | 140                 | 600             | 4               | 6, 7                    |       |
| 85             | 89  | 80/03/29                  | 0735:50                  | 0736:15                 | 160             | 900                 | 27528           | 6               | 6, 8                    | M     |
| 86             | 89  | 80/03/29                  | 0815:30                  | 0816:43                 | 90              | 135                 | 1167            | 3               | 6, 9                    |       |
| 87             | 89  | 80/03/29                  | 0917:00                  | 0918:13                 | 210             | 19000               | 2.50E+05        | 15              | 6, 10                   | M, FS |
| 88             | 89  | 80/03/29                  | 0940:05                  | 0941:23                 | 150             | 680                 | 15852           | 6               | 6, 10                   |       |
| 89             | 89  | 80/03/29                  | 0954:40                  | 0955:15                 | 100             | 8000                | 1.20E+05        | 15              | 6, 10                   | EN    |
| 90             | 89  | 80/03/29                  | 1042:30                  | 1042:40                 | 40              | 56                  | 598             | 2               | 6, 11                   |       |
| 91             | 89  | 80/03/29                  | 1207:50                  | 1208:10                 | 50              | 71                  | 377             | 2               | 6, 12                   |       |
| 92             | 89  | 80/03/29                  | 1216:40                  | 1217:00                 | 30              | 96                  |                 | 2               | 6, 12                   |       |
| 93             | 89  | 80/03/29                  | 1419:00                  | 1420:10                 | 170             | 93                  |                 | 4               | 6, 13                   |       |
| 94             | 89  | 80/03/29                  | 1443:00                  | 1443:55                 | 80              | 108                 | 2396            | 3               | 6, 14                   | EN    |
| 95             | 89  | 80/03/29                  | 1521:00                  | 1521:40                 | 90              | 63                  | 957             | 2               | 6, 15                   |       |
| 96             | 89  | 80/03/29                  | 1729:20                  | 1729:25                 | 150             | 95                  |                 | 2               | 6, 16                   |       |
| 97             | 89  | 80/03/29                  | 1854:50                  | 1855:00                 | 20              | 55                  |                 | 2               | 6, 17                   |       |
| 98             | 89  | 80/03/29                  | 2014:10                  | 2014:42                 | 70              | 385                 | 4375            | 4               | 6, 18                   |       |
| 99             | 89  | 80/03/29                  | 2040:00                  | 2041:40                 | 240             | 210                 | 6930            | 3               | 6, 19                   |       |
| 100            | 89  | 80/03/29                  | 2046:00                  | 2048:50                 | 330             | 125                 | 7299            | 3               | 6, 19                   |       |
| 101            | 90  | 80/03/30                  | 0005:40                  | 0006:10                 | 50              | 90                  | 563             | 2               | 7, 1                    |       |
| 102            | 90  | 80/03/30                  | 0252:35                  | 0252:45                 | 20              | 57                  | 806             | 3               | 7, 2                    |       |
| 103            | 90  | 80/03/30                  | 0302:20                  | 0302:40                 | 110             | 140                 | 2970            | 3               | 7, 2                    |       |
| 104            | 90  | 80/03/30                  | 0322:20                  | 0322:35                 | 30              | 82                  | 390             | 3               | 7, 2                    |       |
| 105            | 90  | 80/03/30                  | 0749:15                  | 0750:00                 | 55              | 62                  | 470             | 2               | 7, 3                    |       |
| 106            | 90  | 80/03/30                  | 1525:00                  | 1525:40                 | 100             | 134                 | 1980            | 4               | 7, 4                    |       |
| 107            | 90  | 80/03/30                  | 1841:10                  | 1841:50                 | 300             | 194                 | 3931            | 5               | 7, 5                    | ND    |
| 108            | 90  | 80/03/30                  | 2049:15                  | 2049:45                 | 55              | 190                 | 1416            | 6               | 7, 6                    |       |
| 109            | 91  | 80/03/31                  | 0115:35                  | 0117:40                 | 140             | 210                 | 1933            | 5               | 7, 7                    |       |
| 110            | 91  | 80/03/31                  | 1123:40                  | 1124:10                 | 60              | 500                 | 6761            | 6               | 7, 8                    | FS    |
| 35             | 91  | 80/03/31                  | 1129:10                  | 1129:30                 | 75              | 280                 | 2615            | 2               | 7, 8                    |       |
| 111            | 91  | 80/03/31                  | 1705:15                  | 1705:22                 | 13              | 82                  | 92              | 4               | 7, 9                    |       |
| 204            | 91  | 80/03/31                  | 1706:40                  | 1707:04                 | 64              | 130                 | 1049            | 4               | 7, 9                    |       |
| 880            | 91  | 80/03/31                  | 1708:30                  | 1708:39                 | 40              | 214                 | 1673            | 7               | 7, 9                    |       |
| 112            | 92  | 80/04/01                  | 0300:25                  | 0300:50                 | 50              | 70                  | 240             | 2               | 8, 1                    |       |
| 113            | 92  | 80/04/01                  | 0943:10                  | 0943:40                 | 98              | 70                  | 1190            | 4               | 8, 2                    |       |
| 114            | 92  | 80/04/01                  | 1524:25                  | 1525:45                 | 245             | 200                 | 12800           | 5               | 8, 3                    |       |
| 115            | 92  | 80/04/01                  | 1539:55                  | 1541:05                 | 200             | 72                  | 1240            | 2               | 8, 3                    |       |
| 116            | 92  | 80/04/01                  | 2017:00                  | 2018:30                 | 720             | 110                 | 3077            | 2               | 8, 4                    |       |
| 117            | 92  | 80/04/01                  | 2159:20                  | 2200:00                 | 150             | 72                  | 819             | 2               | 8, 5                    |       |
| 118            | 93  | 80/04/02                  | 0254:40                  | 0255:00                 | 40              | 78                  | 295             | 2               | 8, 6                    |       |
| 119            | 93  | 80/04/02                  | 0416:10                  | 0416:40                 | 340             | 160                 | 3604            | 4               | 8, 7                    |       |
| 120            | 93  | 80/04/02                  | 0902:20                  | 0903:35                 | 160             | 380                 | 13005           | 6               | 8, 8                    |       |
| 121            | 93  | 80/04/02                  | 1121:00                  | 1121:30                 | 70              | 950                 | 11245           | 6               | 8, 9                    | M     |
| 122            | 93  | 80/04/02                  | 1659:30                  | 1702:40                 | 320             | 320                 | 13940           | 4               | 8, 11                   |       |
| 123            | 93  | 80/04/02                  | 1724:15                  | 1724:30                 | 35              | 70                  | 400             | 2               | 8, 12                   |       |
| 124            | 93  | 80/04/02                  | 2022:00                  | 2024:15                 | 190             | 72                  | 1450            | 2               | 8, 13                   |       |
| * 125          | 94  | 80/04/03                  | 0116:00                  | 0117:35                 | 720             | 950                 | 73585           | 5               | 8, 14                   | ND    |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 126          | 94  | 80/04/03                  | 0633:35                  | 0638:05                 | 500             | 340                 | 33300           | 7               | 8, 15                    |          |
| * 127          | 94  | 80/04/03                  | 0717:00                  | 0719:35                 | 960             | 1830                | 3.00E+05        | 12              | 8, 16                    | M ,SN    |
| * 128          | 94  | 80/04/03                  | 0815:40                  | 0816:05                 | 30              | 77                  | 264             | 3               | 8, 17                    |          |
| 129            | 94  | 80/04/03                  | 2039:40                  | 2040:20                 | 60              | 140                 | 10000           | 3               | 9, 2                     |          |
| 130            | 95  | 80/04/04                  | 0721:40                  | 0722:00                 | 30              | 105                 | 773             | 2               | 9, 3                     |          |
| 131            | 95  | 80/04/04                  | 0858:50                  | 0858:50                 | 30              | 100                 | 580             | 2               | 9, 4                     |          |
| 132            | 95  | 80/04/04                  | 1101:30                  | 1105:30                 | 420             | 100                 | 3186            | 2               | 9, 5                     |          |
| 133            | 95  | 80/04/04                  | 1515:50                  | 1517:45                 | 2160            | 600                 | 2.65E+05        | 4               | 9, 6                     | SN,ES    |
| 134            | 95  | 80/04/04                  | 1654:55                  | 1655:06                 | 89              | 97                  | 1350            | 2               |                          | ND       |
| 135            | 95  | 80/04/04                  | 2156:20                  | 2156:50                 | 100             | 105                 | 1528            | 4               | 9, 7                     | AX       |
| 136            | 96  | 80/04/05                  | 0008:50                  | 0009:25                 | 60              | 880                 | 9553            | 6               | 9, 8                     | M ,FS    |
| 137            | 96  | 80/04/05                  | 0146:35                  | 0146:47                 | 37              | 90                  |                 | 5               | 9, 10                    |          |
| 138            | 96  | 80/04/05                  | 0424:57                  | 0425:40                 | 73              | 80                  |                 | 2               | 9, 11                    |          |
| 139            | 96  | 80/04/05                  | 0553:20                  | 0556:30                 | 910             | 87                  | 13650           | 2               | 9, 12                    |          |
| 140            | 96  | 80/04/05                  | 0810:50                  | 0810:57                 | 30              | 90                  |                 | 2               | 9, 13                    |          |
| 141            | 96  | 80/04/05                  | 0944:10                  | 0944:30                 | 180             | 150                 | 1865            | 4               | 9, 14                    |          |
| 142            | 96  | 80/04/05                  | 1039:50                  | 1041:30                 | 410             | 460                 | 15580           | 8               | 9, 15                    |          |
| 143            | 96  | 80/04/05                  | 1111:20                  | 1113:20                 | 260             | 65                  |                 | 2               | 9, 16                    |          |
| 144            | 96  | 80/04/05                  | 1541:30                  | 1551:10                 | 630             | 2100                | 3.47E+05        | 8               | 9, 17                    | M ,ES    |
| 145            | 96  | 80/04/05                  | 1710:00                  | 1710:55                 | 240             | 85                  |                 | 2               | 10, 1                    |          |
| 146            | 96  | 80/04/05                  | 1849:45                  | 1851:30                 | 155             | 180                 | 3500            | 4               | 10, 2                    |          |
| 147            | 96  | 80/04/05                  | 2007:20                  | 2008:40                 | 160             | 80                  |                 | 2               | 10, 3                    | AX       |
| 148            | 96  | 80/04/05                  | 2143:00                  | 2145:15                 | 720             | 110                 | 14803           | 2               | 10, 4                    | AX       |
| 149            | 97  | 80/04/06                  | 0324:25                  | 0325:35                 | 105             | 88                  | 450             | 2               | 10, 5                    |          |
| 150            | 97  | 80/04/06                  | 0404:00                  | 0413:20                 | 2100            | 2360                | 7.28E+05        | 10              | 10, 6                    | M ,SN    |
| 151            | 97  | 80/04/06                  | 0604:20                  | 0605:00                 | 120             | 80                  | 710             | 2               | 10, 8                    |          |
| 152            | 97  | 80/04/06                  | 0611:40                  | 0612:35                 | 100             | 175                 | 5500            | 4               | 10, 8                    |          |
| 153            | 97  | 80/04/06                  | 0716:30                  | 0748:20                 | 2200            | 95                  | 15122           | 3               | 10, 9                    |          |
| 154            | 97  | 80/04/06                  | 1223:35                  | 1225:10                 | 320             | 78                  | 2280            | 2               | 10, 10                   |          |
| 155            | 97  | 80/04/06                  | 1350:40                  | 1351:40                 | 290             | 84                  | 4260            | 10              | 10, 11                   |          |
| 156            | 97  | 80/04/06                  | 1433:40                  | 1434:30                 | 260             | 2000                | 2.76E+05        | 10              | 10, 12                   | M ,EN,SA |
| 157            | 97  | 80/04/06                  | 1539:20                  | 1541:25                 | 600             | 900                 | 1.54E+05        | 3               | 10, 13                   | M        |
| 158            | 98  | 80/04/07                  | 0050:00                  | 0052:30                 | 2000            | 430                 | 2.90E+05        | 4               | 10, 14                   | EN       |
| 159            | 98  | 80/04/07                  | 0129:20                  | 0129:55                 | 50              | 93                  | 990             | 2               | 10, 14                   |          |
| 160            | 98  | 80/04/07                  | 0139:10                  | 0139:28                 | 30              | 510                 | 4669            | 6               | 10, 14                   |          |
| 161            | 98  | 80/04/07                  | 0319:30                  | 0320:05                 | 70              | 83                  | 1229            | 2               | 10, 15                   |          |
| 162            | 98  | 80/04/07                  | 0401:30                  | 0401:30                 | 700             | 89                  | 9830            | 2               | 10, 16                   | SN       |
| 163            | 98  | 80/04/07                  | 0458:10                  | 0500:00                 | 200             | 77                  | 778             | 2               | 10, 17                   |          |
| 164            | 98  | 80/04/07                  | 0537:40                  | 0538:15                 | 1800            | 2300                | 6.10E+05        | 3               | 10, 18                   | M ,SN    |
| 165            | 98  | 80/04/07                  | 0540:35                  | 0540:48                 | 100             | 1970                | 40680           | 3               | 10, 18                   |          |
| 166            | 98  | 80/04/07                  | 0553:55                  | 0555:40                 | 165             | 370                 | 8612            | 3               | 10, 18                   |          |
| 167            | 98  | 80/04/07                  | 0603:40                  | 0604:50                 | 150             | 105                 | 4465            | 2               | 10, 18                   |          |
| 168            | 98  | 80/04/07                  | 0720:10                  | 0720:45                 | 50              | 60                  |                 | 2               | 11, 1                    |          |
| 169            | 98  | 80/04/07                  | 1033:40                  | 1034:50                 | 120             | 130                 | 3441            | 3               | 11, 2                    |          |
| 170            | 98  | 80/04/07                  | 1220:50                  | 1221:10                 | 60              | 62                  | 115             | 2               | 11, 3                    |          |
| 171            | 98  | 80/04/07                  | 1243:50                  | 1244:20                 | 60              | 79                  | 1786            | 2               | 11, 4                    |          |
| 172            | 98  | 80/04/07                  | 1254:10                  | 1254:30                 | 40              | 170                 | 999             | 3               | 11, 4                    |          |
| 173            | 98  | 80/04/07                  | 1341:40                  | 1342:20                 | 120             | 54                  | 1024            | 2               | 11, 5                    |          |
| 174            | 98  | 80/04/07                  | 1652:00                  | 1652:24                 | 50              | 230                 | 2773            | 2               | 11, 6                    |          |
| 175            | 98  | 80/04/07                  | 1655:50                  | 1656:10                 | 40              | 105                 | 1393            | 2               | 11, 6                    |          |
| 176            | 98  | 80/04/07                  | 1840:50                  | 1843:55                 | 320             | 495                 | 36370           | 3               | 11, 7                    |          |
| 177            | 98  | 80/04/07                  | 2009:10                  | 2009:25                 | 40              | 70                  | 336             | 2               | 11, 8                    |          |
| 178            | 98  | 80/04/07                  | 2153:30                  | 2153:35                 | 10              | 108                 | 290             | 4               | 11, 9                    |          |
| 179            | 98  | 80/04/07                  | 2325:40                  | 2327:35                 | 200             | 70                  | 973             | 2               | 11, 10                   |          |
| 180            | 98  | 80/04/07                  | 2354:10                  | 2354:30                 | 30              | 96                  | 1660            | 2               | 11, 11                   |          |
| 181            | 98  | 80/04/07                  | 2359:25                  | 2359:30                 | 40              | 80                  | 1100            | 2               | 11, 11                   |          |
| 182            | 99  | 80/04/08                  | 0115:20                  | 0117:40                 | 540             | 190                 | 13000           | 4               | 11, 12                   |          |
| 183            | 99  | 80/04/08                  | 0131:10                  | 0131:30                 | 58              | 82                  | 290             | 2               | 11, 13                   |          |
| 184            | 99  | 80/04/08                  | 0140:10                  | 0140:28                 | 30              | 180                 | 1124            | 2               | 11, 14                   |          |
| 185            | 99  | 80/04/08                  | 0146:50                  | 0147:30                 | 55              | 105                 | 737             | 2               | 11, 14                   | M        |
| 186            | 99  | 80/04/08                  | 0238:10                  | 0238:40                 | 280             | 61                  |                 | 2               | 11, 15                   |          |
| 187            | 99  | 80/04/08                  | 0259:15                  | 0305:00                 | 1525            | 3800                | 5.40E+05        | 6               | 11, 16                   | EN       |
| 188            | 99  | 80/04/08                  | 0320:00                  | 0320:30                 | 60              | 90                  | 967             | 2               | 11, 16                   |          |
| 189            | 99  | 80/04/08                  | 0730:50                  | 0731:40                 | 90              | 75                  |                 | 2               | 11, 17                   |          |
| 190            | 99  | 80/04/08                  | 0923:50                  | 0924:30                 | 80              | 70                  | 664             | 2               | 11, 18                   |          |
| 191            | 99  | 80/04/08                  | 0931:00                  | 0931:10                 | 30              | 67                  | 277             | 2               | 11, 18                   |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 192            | 99  | 80/04/08                  | 1050:30                  | 1051:30                 | 140             | 75                  | 1470            | 2               | 11, 19                   |        |
| 193            | 99  | 80/04/08                  | 1215:30                  | 1215:34                 | 12              | 60                  |                 | 2               | 12, 1                    |        |
| 194            | 99  | 80/04/08                  | 1218:00                  | 1219:40                 | 210             | 210                 | 6571            | 5               | 12, 1                    |        |
| 195            | 99  | 80/04/08                  | 1230:30                  | 1231:00                 | 70              | 120                 | 1848            | 3               | 12, 1                    |        |
| 196            | 99  | 80/04/08                  | 1532:45                  | 1532:50                 | 15              | 60                  | 175             | 2               | 12, 2                    |        |
| 197            | 99  | 80/04/08                  | 1702:50                  | 1703:15                 | 40              | 63                  | 284             | 2               | 12, 3                    |        |
| 198            | 99  | 80/04/08                  | 2155:10                  | 2155:20                 | 35              | 123                 | 827             | 3               | 12, 4                    |        |
| 199            | 99  | 80/04/08                  | 2206:00                  | 2206:10                 | 40              | 70                  | 369             | 2               | 12, 5                    |        |
| 200            | 100 | 80/04/09                  | 0128:00                  | 0129:30                 | 600             | 70                  |                 | 2               | 12, 8                    |        |
| 201            | 100 | 80/04/09                  | 0359:25                  | 0402:30                 | 200             | 100                 | 639             | 2               | 12, 6                    | SN     |
| 202            | 100 | 80/04/09                  | 0409:20                  | 0411:10                 | 110             | 130                 | 2482            | 2               | 12, 6                    |        |
| 203            | 100 | 80/04/09                  | 0445:30                  | 0445:50                 | 40              | 66                  | 319             | 2               | 12, 7                    |        |
| 4273           | 100 | 80/04/09                  | 0757:40                  | 0758:45                 | 250             | 127                 | 2438            | 2               | 143, 15                  | I      |
| 205            | 100 | 80/04/09                  | 0807:15                  | 0809:10                 | 220             | 64                  |                 | 2               | 12, 9                    |        |
| 4274           | 100 | 80/04/09                  | 1045:40                  | 1046:05                 | 55              | 120                 | 4300            | 5               | 143, 16                  | I      |
| 206            | 100 | 80/04/09                  | 1209:03                  | 1209:13                 | 50              | 122                 | 1303            | 3               | 12, 10                   | DG     |
| 207            | 100 | 80/04/09                  | 1212:40                  | 1213:50                 | 100             | 76                  | 836             | 2               | 12, 10                   |        |
| 208            | 100 | 80/04/09                  | 1705:48                  | 1706:00                 | 20              | 67                  |                 | 2               |                          |        |
| 209            | 100 | 80/04/09                  | 1837:24                  | 1837:42                 | 30              | 71                  |                 | 2               |                          | EW     |
| 210            | 100 | 80/04/09                  | 2156:09                  | 2156:23                 | 50              | 85                  |                 | 2               |                          | EW     |
| 211            | 101 | 80/04/10                  | 0116:48                  | 0117:00                 | 75              | 90                  |                 | 2               |                          |        |
| 212            | 101 | 80/04/10                  | 0124:30                  | 0125:30                 | 104             | 340                 | 4939            | 8               | 12, 11                   | FS     |
| 213            | 101 | 80/04/10                  | 0237:50                  | 0238:18                 | 120             | 93                  |                 | 2               | 12, 12                   |        |
| 214            | 101 | 80/04/10                  | 0247:30                  | 0248:40                 | 150             | 140                 | 6268            | 2               | 12, 12                   |        |
| 215            | 101 | 80/04/10                  | 0250:50                  | 0251:18                 | 100             | 385                 | 6822            | 6               | 12, 12                   | FS     |
| 216            | 101 | 80/04/10                  | 0437:56                  | 0438:05                 | 190             | 69                  |                 | 2               |                          |        |
| 217            | 101 | 80/04/10                  | 0755:54                  | 0757:32                 | 220             | 90                  | 4188            | 4               | 12, 13                   |        |
| 218            | 101 | 80/04/10                  | 0800:10                  | 0800:40                 | 45              | 80                  |                 | 4               | 12, 13                   |        |
| 219            | 101 | 80/04/10                  | 0916:00                  | 0918:50                 | 720             | 4400                | 3.00E+05        | 8               | 12, 14                   | M      |
| 220            | 101 | 80/04/10                  | 1024:10                  | 1027:10                 | 230             | 115                 | 4131            | 6               | 12, 15                   | AX     |
| 221            | 101 | 80/04/10                  | 1251:34                  | 1252:50                 | 192             | 170                 | 5358            | 2               | 12, 16                   |        |
| 222            | 101 | 80/04/10                  | 2013:25                  | 2013:40                 | 50              | 84                  |                 | 2               |                          | EW     |
| 223            | 101 | 80/04/10                  | 2156:15                  | 2157:50                 | 230             | 91                  | 3890            | 2               | 13, 1                    | EW     |
| 224            | 102 | 80/04/11                  | 0058:30                  | 0058:50                 | 115             | 85                  |                 | 2               |                          |        |
| 225            | 102 | 80/04/11                  | 0126:15                  | 0126:20                 | 10              | 100                 | 338             | 2               |                          | DG     |
| 226            | 102 | 80/04/11                  | 0412:00                  | 0416:05                 | 320             | 210                 | 14560           | 4               | 13, 2                    | M      |
| 227            | 102 | 80/04/11                  | 0427:45                  | 0428:50                 | 170             | 150                 | 4060            | 4               | 13, 2                    |        |
| 228            | 102 | 80/04/11                  | 0533:20                  | 0533:40                 | 65              | 70                  |                 | 2               |                          | SN     |
| 229            | 102 | 80/04/11                  | 0618:15                  | 0618:40                 | 85              | 70                  |                 | 2               |                          |        |
| 230            | 102 | 80/04/11                  | 0630:15                  | 0631:20                 | 155             | 100                 | 4424            | 2               | 13, 4                    | M, EN  |
| 231            | 102 | 80/04/11                  | 0850:00                  | 0850:01                 | 70              | 72                  |                 | 2               |                          |        |
| 232            | 102 | 80/04/11                  | 0902:50                  | 0907:10                 | 490             | 180                 | 23200           | 3               | 13, 5                    |        |
| 233            | 102 | 80/04/11                  | 1105:15                  | 1105:15                 | 10              | 72                  |                 | 2               |                          |        |
| 234            | 102 | 80/04/11                  | 1348:30                  | 1350:10                 | 205             | 1150                | 77000           | 6               | 13, 6                    |        |
| 235            | 102 | 80/04/11                  | 1510:30                  | 1511:15                 | 130             | 265                 | 10400           | 6               | 13, 7                    |        |
| 236            | 102 | 80/04/11                  | 1702:55                  | 1703:00                 | 35              | 72                  |                 | 2               |                          |        |
| 237            | 102 | 80/04/11                  | 1821:10                  | 1821:40                 | 360             | 260                 | 11000           | 6               | 13, 8                    |        |
| 238            | 102 | 80/04/11                  | 2033:25                  | 2033:50                 | 65              | 91                  |                 | 2               |                          |        |
| 239            | 102 | 80/04/11                  | 2132:15                  | 2142:50                 | 800             | 480                 | 10400           | 10              | 13, 9                    |        |
| 240            | 102 | 80/04/11                  | 2202:55                  | 2203:00                 | 40              | 70                  |                 | 10              |                          |        |
| 241            | 102 | 80/04/11                  | 2308:10                  | 2310:50                 | 530             | 360                 | 32000           | 4               | 13, 10                   | SN     |
| 242            | 103 | 80/04/12                  | 0054:10                  | 0056:30                 | 205             | 115                 | 4640            | 2               | 13, 11                   | EW     |
| 243            | 103 | 80/04/12                  | 0220:00                  | 0220:30                 | 85              | 66                  |                 | 2               |                          |        |
| 244            | 103 | 80/04/12                  | 0454:00                  | 0454:10                 | 15              | 70                  |                 | 2               |                          | EW     |
| 245            | 103 | 80/04/12                  | 0541:30                  | 0541:40                 | 130             | 490                 | 7680            | 8               | 13, 12                   | FS     |
| 246            | 103 | 80/04/12                  | 0552:00                  | 0555:30                 | 715             | 345                 | 34100           | 6               | 13, 12                   | EW     |
| 247            | 103 | 80/04/12                  | 0630:10                  | 0630:50                 | 75              | 71                  |                 | 2               |                          | EW     |
| 248            | 103 | 80/04/12                  | 0846:15                  | 0846:50                 | 85              | 80                  |                 | 2               |                          | EW     |
| 249            | 103 | 80/04/12                  | 0907:40                  | 0920:40                 | 1250            | 70                  | 20000           | 2               | 13, 13                   | EW     |
| 250            | 103 | 80/04/12                  | 0940:00                  | 0940:05                 | 22              | 140                 | 1101            | 3               | 13, 14                   | EW     |
| 251            | 103 | 80/04/12                  | 1337:55                  | 1338:25                 | 210             | 76                  | 2600            | 2               | 13, 15                   |        |
| 252            | 103 | 80/04/12                  | 1428:05                  | 1428:15                 | 200             | 145                 | 1824            | 2               | 13, 16                   | EG, DG |
| 253            | 103 | 80/04/12                  | 1508:10                  | 1508:30                 | 85              | 60                  |                 | 2               |                          | EW     |
| 254            | 103 | 80/04/12                  | 1524:20                  | 1524:40                 | 30              | 70                  |                 | 2               |                          |        |
| 255            | 103 | 80/04/12                  | 1526:50                  | 1527:00                 | 30              | 58                  |                 | 2               |                          | EW     |
| 256            | 103 | 80/04/12                  | 1645:00                  | 1645:20                 | 40              | 60                  |                 | 2               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 257            | 103 | 80/04/12                  | 1709:20                  | 1709:35                 | 20              | 75                  |                 | 2               |                          | EW    |
| 258            | 103 | 80/04/12                  | 2014:40                  | 2015:20                 | 75              | 115                 | 1816            | 2               | 13, 17                   | EW    |
| 259            | 103 | 80/04/12                  | 2307:00                  | 2307:22                 | 155             | 195                 | 5977            | 4               | 14, 1                    | SN    |
| 260            | 104 | 80/04/13                  | 0228:50                  | 0231:10                 | 220             | 530                 | 11103           | 8               | 14, 2                    | FS    |
| 261            | 104 | 80/04/13                  | 0402:30                  | 0405:20                 | 990             | 800                 | 60211           | 6               | 14, 3                    | M     |
| 262            | 104 | 80/04/13                  | 0420:00                  | 0420:40                 | 180             | 100                 | 1725            | 4               | 14, 3                    |       |
| 263            | 104 | 80/04/13                  | 0453:00                  | 0453:30                 | 120             | 550                 | 9683            | 5               | 14, 4                    |       |
| 264            | 104 | 80/04/13                  | 0545:48                  | 0545:54                 | 22              | 115                 | 3704            | 4               |                          |       |
| 265            | 104 | 80/04/13                  | 0546:30                  | 0546:40                 | 40              | 68                  |                 | 2               |                          |       |
| 266            | 104 | 80/04/13                  | 0547:20                  | 0547:26                 | 33              | 82                  |                 | 4               |                          |       |
| 267            | 104 | 80/04/13                  | 0900:20                  | 0900:45                 | 38              | 62                  |                 | 3               | 14, 5                    |       |
| 268            | 104 | 80/04/13                  | 0902:00                  | 0902:15                 | 35              | 140                 | 506             | 4               | 14, 5                    |       |
| 269            | 104 | 80/04/13                  | 0903:20                  | 0904:10                 | 158             | 2000                | 34898           | 10              | 14, 5                    | M     |
| 270            | 104 | 80/04/13                  | 0906:30                  | 0906:45                 | 30              | 85                  |                 | 2               | 14, 5                    |       |
| 271            | 104 | 80/04/13                  | 0907:10                  | 0907:32                 | 55              | 75                  |                 | 2               | 14, 5                    |       |
| 272            | 104 | 80/04/13                  | 0913:22                  | 0913:34                 | 22              | 73                  |                 | 4               | 14, 5                    |       |
| 273            | 104 | 80/04/13                  | 1023:45                  | 1023:58                 | 75              | 260                 | 2956            | 4               | 14, 6                    | FS    |
| 274            | 104 | 80/04/13                  | 1111:50                  | 1113:00                 | 130             | 92                  |                 | 2               |                          |       |
| 275            | 104 | 80/04/13                  | 1227:25                  | 1229:42                 | 234             | 490                 | 11760           | 6               | 14, 7                    | FS    |
| 276            | 104 | 80/04/13                  | 1239:45                  | 1240:10                 | 60              | 140                 | 1052            | 5               | 14, 7                    |       |
| 277            | 104 | 80/04/13                  | 1244:10                  | 1247:20                 | 200             | 87                  |                 | 4               | 14, 7                    |       |
| 278            | 104 | 80/04/13                  | 1652:30                  | 1653:20                 | 120             | 54                  |                 | 2               |                          |       |
| 279            | 104 | 80/04/13                  | 1710:20                  | 1711:30                 | 100             | 82                  |                 | 3               |                          |       |
| 280            | 104 | 80/04/13                  | 1851:00                  | 1854:00                 | 247             | 160                 | 5825            | 4               | 14, 9                    |       |
| 6768           | 104 | 80/04/13                  | 1954:50                  | 1955:30                 | 80              | 100                 | 1400            | 4               |                          | DG    |
| 281            | 104 | 80/04/13                  | 2130:00                  | 2134:00                 | 315             | 90                  |                 | 2               |                          | SN,AX |
| 282            | 104 | 80/04/13                  | 2150:10                  | 2150:52                 | 110             | 96                  |                 | 2               |                          |       |
| 283            | 104 | 80/04/13                  | 2315:00                  | 2316:20                 | 116             | 93                  |                 | 2               |                          |       |
| 284            | 105 | 80/04/14                  | 0557:40                  | 0557:50                 | 40              | 57                  |                 | 2               |                          |       |
| 285            | 105 | 80/04/14                  | 0715:50                  | 0717:15                 | 190             | 62                  |                 | 2               |                          |       |
| 286            | 105 | 80/04/14                  | 1107:10                  | 1107:30                 | 36              | 62                  |                 | 2               |                          |       |
| 287            | 105 | 80/04/14                  | 1110:20                  | 1111:50                 | 145             | 102                 | 3059            | 4               |                          |       |
| 288            | 105 | 80/04/14                  | 1153:10                  | 1153:40                 | 60              | 170                 | 1321            | 4               | 14, 10                   | SN    |
| 289            | 105 | 80/04/14                  | 2004:10                  | 2005:10                 | 260             | 420                 | 13500           | 10              | 14, 11                   |       |
| 290            | 105 | 80/04/14                  | 2025:20                  | 2028:35                 | 280             | 115                 | 2466            | 4               | 14, 12                   |       |
| 291            | 105 | 80/04/14                  | 2030:45                  | 2033:40                 | 280             | 105                 | 4039            | 2               | 14, 12                   |       |
| 292            | 105 | 80/04/14                  | 2136:00                  | 2138:20                 | 380             | 350                 | 37724           | 5               | 14, 13                   |       |
| 293            | 106 | 80/04/15                  | 0547:30                  | 0548:50                 | 210             | 780                 | 21791           | 10              | 14, 14                   | M     |
| 294            | 106 | 80/04/15                  | 0851:20                  | 0851:35                 | 20              | 65                  |                 | 2               |                          | ND    |
| 295            | 106 | 80/04/15                  | 1508:00                  | 1510:25                 | 700             | 19000               | 9.50E+05        | 11              | 14, 16                   | M     |
| 296            | 107 | 80/04/16                  | 0100:40                  | 0103:30                 | 270             | 108                 | 8063            | 3               |                          | ND    |
| 297            | 107 | 80/04/16                  | 0115:20                  | 0116:10                 | 150             | 71                  |                 | 2               |                          | ND    |
| 298            | 107 | 80/04/16                  | 0255:40                  | 0256:00                 | 30              | 91                  |                 | 2               |                          |       |
| 299            | 107 | 80/04/16                  | 0402:00                  | 0407:00                 | 420             | 280                 | 21633           | 5               | 15, 1                    | ND    |
| 300            | 107 | 80/04/16                  | 0538:00                  | 0540:30                 | 380             | 120                 | 5358            | 3               | 15, 2                    |       |
| 301            | 108 | 80/04/17                  | 0104:05                  | 0105:15                 | 80              | 77                  |                 | 2               |                          |       |
| 4267           | 108 | 80/04/17                  | 0249:15                  | 0250:30                 | 145             | 76                  |                 | 5               |                          | I     |
| 302            | 108 | 80/04/17                  | 0436:50                  | 0437:50                 | 185             | 75                  |                 | 2               |                          |       |
| 303            | 108 | 80/04/17                  | 0622:15                  | 0622:40                 | 65              | 70                  |                 | 2               |                          |       |
| 6751           | 108 | 80/04/17                  | 0750:51                  | 0752:57                 | 142             | 66                  |                 | 2               |                          |       |
| 304            | 108 | 80/04/17                  | 1958:00                  | 2005:30                 | 540             | 91                  | 3560            | 2               | 15, 3                    |       |
| 305            | 108 | 80/04/17                  | 2314:10                  | 2314:20                 | 40              | 84                  |                 | 2               |                          |       |
| 306            | 109 | 80/04/18                  | 0620:05                  | 0625:40                 | 410             | 75                  |                 | 2               | 15, 4                    |       |
| 307            | 109 | 80/04/18                  | 2001:00                  | 2003:05                 | 270             | 220                 | 32202           | 4               |                          |       |
| 308            | 110 | 80/04/19                  | 0119:45                  | 0119:48                 | 3               | 2500                | 3732            | 15              | 15, 5                    | NS    |
| 309            | 110 | 80/04/19                  | 0240:00                  | 0240:40                 | 90              | 140                 | 2435            | 2               |                          |       |
| 310            | 111 | 80/04/20                  | 0108:10                  | 0108:40                 | 75              | 75                  |                 | 2               |                          |       |
| 311            | 111 | 80/04/20                  | 0248:15                  | 0248:25                 | 145             | 105                 | 1960            | 3               | 15, 6                    |       |
| 312            | 111 | 80/04/20                  | 1508:15                  | 1508:20                 | 15              | 90                  |                 | 3               |                          |       |
| 313            | 111 | 80/04/20                  | 1553:55                  | 1554:05                 | 50              | 135                 | 710             | 3               | 15, 7                    |       |
| 314            | 111 | 80/04/20                  | 1956:05                  | 1956:09                 | 10              | 97                  |                 | 2               |                          |       |
| 315            | 111 | 80/04/20                  | 2019:40                  | 2020:00                 | 210             | 90                  |                 | 2               |                          |       |
| 316            | 111 | 80/04/20                  | 2133:00                  | 2137:10                 | 540             | 60                  |                 | 2               |                          |       |
| 317            | 111 | 80/04/20                  | 2152:20                  | 2152:55                 | 60              | 60                  |                 | 2               |                          |       |
| 318            | 112 | 80/04/21                  | 0308:04                  | 0308:09                 | 27              | 670                 | 5622            | 15              | 15, 8                    | NS    |
| 319            | 112 | 80/04/21                  | 0405:50                  | 0407:00                 | 120             | 70                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 320            | 112 | 80/04/21                  | 0539:27                  | 0539:43                 | 50              | 160                 | 2327            | 5               | 15, 9                    |       |
| 321            | 112 | 80/04/21                  | 0541:45                  | 0542:07                 | 50              | 540                 | 5145            | 5               | 15, 9                    | FS    |
| 322            | 112 | 80/04/21                  | 0542:56                  | 0543:02                 | 80              | 280                 | 4702            | 5               | 15, 9                    |       |
| 323            | 112 | 80/04/21                  | 0552:40                  | 0553:40                 | 110             | 55                  |                 | 2               |                          |       |
| 324            | 112 | 80/04/21                  | 1827:15                  | 1827:58                 | 50              | 125                 | 860             | 2               | 15, 10                   |       |
| 325            | 112 | 80/04/21                  | 2306:00                  | 2306:50                 | 150             | 90                  |                 | 2               |                          |       |
| 326            | 113 | 80/04/22                  | 0100:50                  | 0101:20                 | 50              | 80                  |                 | 2               | 15, 11                   |       |
| 327            | 113 | 80/04/22                  | 0117:10                  | 0118:30                 | 120             | 112                 | 5161            | 2               | 15, 11                   |       |
| 328            | 113 | 80/04/22                  | 0521:30                  | 0521:41                 | 150             | 92                  |                 | 2               |                          | SN    |
| 329            | 113 | 80/04/22                  | 0531:28                  | 0531:50                 | 30              | 60                  |                 | 2               |                          |       |
| 330            | 113 | 80/04/22                  | 0714:20                  | 0719:10                 | 400             | 60                  |                 | 5               |                          | AX    |
| 331            | 115 | 80/04/24                  | 0550:30                  | 0557:40                 | 450             | 270                 | 6835            | 3               | 16, 1                    |       |
| 4262           | 115 | 80/04/24                  | 0930:10                  | 0930:55                 | 207             | 112                 | 2211            | 5               | 143, 8                   | I     |
| 332            | 115 | 80/04/24                  | 1807:50                  | 1809:30                 | 135             | 77                  |                 | 2               |                          |       |
| 333            | 116 | 80/04/25                  | 1102:00                  | 1104:05                 | 185             | 80                  |                 | 2               |                          |       |
| 334            | 116 | 80/04/25                  | 1910:00                  | 1910:05                 | 10              | 65                  |                 | 2               |                          |       |
| 335            | 116 | 80/04/25                  | 2040:40                  | 2041:00                 | 50              | 88                  |                 | 2               |                          |       |
| 336            | 117 | 80/04/26                  | 0057:40                  | 0101:00                 | 380             | 83                  | 5243            | 2               | 16, 2                    |       |
| 337            | 117 | 80/04/26                  | 0106:30                  | 0107:50                 | 200             | 98                  | 3154            | 2               | 16, 2                    |       |
| 338            | 117 | 80/04/26                  | 0110:00                  | 0115:40                 | 700             | 65                  | 1720            | 2               | 16, 2                    | EN    |
| 339            | 117 | 80/04/26                  | 0345:00                  | 0345:30                 | 60              | 63                  |                 | 2               |                          |       |
| 340            | 117 | 80/04/26                  | 0348:00                  | 0348:30                 | 100             | 68                  |                 | 2               |                          |       |
| 341            | 117 | 80/04/26                  | 0602:10                  | 0603:25                 | 470             | 305                 | 9011            | 5               | 16, 3                    |       |
| 342            | 117 | 80/04/26                  | 0720:12                  | 0720:50                 | 135             | 125                 | 3572            | 2               | 16, 4                    | SA    |
| 343            | 117 | 80/04/26                  | 0932:30                  | 0934:05                 | 120             | 86                  |                 | 2               |                          |       |
| 344            | 117 | 80/04/26                  | 1143:30                  | 1144:45                 | 200             | 135                 | 7938            | 2               | 16, 5                    | ES    |
| 345            | 117 | 80/04/26                  | 1229:00                  | 1229:06                 | 25              | 305                 | 1680            | 5               | 16, 6                    | M     |
| 346            | 117 | 80/04/26                  | 1244:35                  | 1245:55                 | 100             | 78                  |                 | 2               | 16, 7                    | EN    |
| 347            | 117 | 80/04/26                  | 2030:43                  | 2031:40                 | 555             | 4200                | 2.09E+05        | 12              | 16, 8                    | M     |
| 348            | 117 | 80/04/26                  | 2136:29                  | 2137:33                 | 155             | 165                 | 4420            | 4               | 16, 9                    |       |
| 349            | 117 | 80/04/26                  | 2146:37                  | 2147:30                 | 53              | 83                  |                 | 4               |                          |       |
| 350            | 117 | 80/04/26                  | 2333:52                  | 2334:00                 | 30              | 88                  |                 | 6               |                          |       |
| 351            | 118 | 80/04/27                  | 0106:10                  | 0106:28                 | 30              | 59                  |                 | 4               |                          |       |
| 352            | 118 | 80/04/27                  | 0109:15                  | 0109:50                 | 58              | 58                  |                 | 4               |                          |       |
| 353            | 118 | 80/04/27                  | 0228:00                  | 0229:15                 | 340             | 235                 | 14830           | 7               | 16, 10                   |       |
| 354            | 118 | 80/04/27                  | 0250:50                  | 0252:05                 | 610             | 390                 | 27400           | 6               | 16, 11                   |       |
| 355            | 119 | 80/04/28                  | 0132:57                  | 0133:12                 | 40              | 80                  |                 | 5               |                          | EN    |
| 356            | 119 | 80/04/28                  | 0237:50                  | 0238:00                 | 30              | 54                  |                 | 2               |                          |       |
| 357            | 119 | 80/04/28                  | 0344:50                  | 0344:55                 | 10              | 160                 | 530             | 4               | 16, 12                   |       |
| 358            | 119 | 80/04/28                  | 0546:20                  | 0547:00                 | 80              | 60                  |                 | 3               |                          |       |
| 359            | 119 | 80/04/28                  | 0725:00                  | 0725:10                 | 20              | 104                 | 452             | 3               |                          |       |
| 360            | 119 | 80/04/28                  | 0900:30                  | 0902:24                 | 300             | 700                 | 18830           | 8               | 16, 13                   |       |
| 361            | 119 | 80/04/28                  | 0916:30                  | 0917:15                 | 90              | 60                  |                 | 2               |                          |       |
| 362            | 119 | 80/04/28                  | 0926:45                  | 0927:10                 | 55              | 60                  |                 | 2               |                          |       |
| 363            | 119 | 80/04/28                  | 0928:50                  | 0928:58                 | 25              | 74                  |                 | 2               |                          |       |
| 364            | 119 | 80/04/28                  | 1038:20                  | 1038:30                 | 20              | 140                 | 836             | 4               | 16, 14                   |       |
| 365            | 119 | 80/04/28                  | 1041:10                  | 1041:30                 | 80              | 110                 | 1142            | 4               | 16, 14                   |       |
| 4277           | 119 | 80/04/28                  | 1227:05                  | 1227:50                 | 278             | 82                  | 1235            | 2               | 16, 15                   | I     |
| 366            | 119 | 80/04/28                  | 1235:10                  | 1238:50                 | 480             | 900                 | 87217           | 7               | 16, 15                   | EN    |
| 367            | 119 | 80/04/28                  | 1546:10                  | 1546:40                 | 60              | 97                  |                 | 2               |                          |       |
| 368            | 119 | 80/04/28                  | 1712:15                  | 1712:35                 | 120             | 80                  |                 | 2               | 17, 1                    | SA,AX |
| 369            | 119 | 80/04/28                  | 1714:40                  | 1715:30                 | 300             | 92                  |                 | 2               | 17, 1                    |       |
| 370            | 119 | 80/04/28                  | 1724:00                  | 1724:30                 | 90              | 112                 | 1433            | 2               | 17, 1                    |       |
| 371            | 119 | 80/04/28                  | 1727:10                  | 1727:40                 | 300             | 146                 | 2968            | 2               | 17, 1                    | EN    |
| 372            | 119 | 80/04/28                  | 1752:00                  | 1752:33                 | 100             | 101                 | 2397            | 2               |                          |       |
| 373            | 119 | 80/04/28                  | 2026:00                  | 2026:20                 | 30              | 63                  |                 | 2               | 17, 2                    |       |
| 374            | 119 | 80/04/28                  | 2031:50                  | 2032:30                 | 50              | 125                 | 1114            | 5               | 17, 2                    | DG    |
| 375            | 119 | 80/04/28                  | 2039:35                  | 2040:00                 | 254             | 10964               | 1.17E+05        | 15              | 17, 2                    | DG,FS |
| 376            | 119 | 80/04/28                  | 2117:30                  | 2118:35                 | 120             | 200                 | 5926            | 5               | 17, 3                    |       |
| 377            | 119 | 80/04/28                  | 2137:15                  | 2138:56                 | 110             | 82                  |                 | 2               |                          |       |
| 378            | 119 | 80/04/28                  | 2143:20                  | 2143:40                 | 60              | 82                  |                 | 2               |                          |       |
| 379            | 119 | 80/04/28                  | 2302:20                  | 2302:40                 | 180             | 122                 | 3790            | 2               | 17, 4                    |       |
| 380            | 119 | 80/04/28                  | 2332:30                  | 2333:50                 | 140             | 92                  |                 | 2               |                          |       |
| 381            | 119 | 80/04/28                  | 2353:40                  | 2354:07                 | 60              | 110                 | 1782            | 2               |                          |       |
| 382            | 120 | 80/04/29                  | 0031:00                  | 0031:10                 | 30              | 72                  |                 | 2               |                          |       |
| 383            | 120 | 80/04/29                  | 0034:50                  | 0034:58                 | 20              | 94                  |                 | 3               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 384            | 120 | 80/04/29                  | 0348:15                  | 0348:20                 | 15              | 85                  |                 | 2               |                          |          |
| 385            | 120 | 80/04/29                  | 0355:10                  | 0355:50                 | 120             | 264                 | 4729            | 2               | 17, 5                    |          |
| 386            | 120 | 80/04/29                  | 0406:40                  | 0407:55                 | 150             | 663                 | 12647           | 10              | 17, 5                    | FS       |
| 387            | 120 | 80/04/29                  | 0426:40                  | 0427:45                 | 140             | 90                  |                 | 2               |                          |          |
| 388            | 120 | 80/04/29                  | 0742:10                  | 0742:27                 | 100             | 62                  |                 | 2               |                          |          |
| 389            | 120 | 80/04/29                  | 1047:00                  | 1049:40                 | 180             | 94                  |                 | 2               |                          |          |
| 390            | 120 | 80/04/29                  | 1105:10                  | 1105:30                 | 20              | 92                  |                 | 2               |                          |          |
| 391            | 120 | 80/04/29                  | 1238:30                  | 1239:30                 | 130             | 144                 | 3780            | 2               | 17, 6                    |          |
| 392            | 120 | 80/04/29                  | 1322:25                  | 1322:35                 | 15              | 120                 | 652             | 2               | 17, 7                    | DG       |
| 393            | 120 | 80/04/29                  | 1402:42                  | 1403:02                 | 30              | 300                 | 3170            | 5               | 17, 8                    |          |
| 394            | 120 | 80/04/29                  | 1718:50                  | 1720:15                 | 170             | 100                 | 349             | 2               |                          |          |
| 395            | 120 | 80/04/29                  | 1814:35                  | 1815:10                 | 125             | 215                 | 4150            | 4               | 17, 9                    |          |
| 396            | 120 | 80/04/29                  | 2016:10                  | 2018:10                 | 420             | 275                 | 78100           | 4               | 17, 10                   |          |
| 397            | 120 | 80/04/29                  | 2158:20                  | 2158:50                 | 45              | 69                  |                 | 2               |                          |          |
| 398            | 120 | 80/04/29                  | 2337:20                  | 2339:55                 | 195             | 115                 | 1300            | 4               | 17, 11                   |          |
| 399            | 121 | 80/04/30                  | 0215:10                  | 0215:40                 | 75              | 160                 | 3110            | 5               | 17, 12                   | EW       |
| 400            | 121 | 80/04/30                  | 0223:45                  | 0223:50                 | 25              | 78                  | 522             | 2               |                          |          |
| 401            | 121 | 80/04/30                  | 0238:15                  | 0238:30                 | 40              | 62                  |                 | 2               |                          |          |
| 402            | 121 | 80/04/30                  | 0245:00                  | 0245:20                 | 60              | 125                 | 1040            | 4               | 17, 13                   |          |
| 403            | 121 | 80/04/30                  | 0345:00                  | 0401:50                 | 1500            | 110                 | 39395           | 15              | 17, 14                   | DG       |
| 404            | 121 | 80/04/30                  | 0543:25                  | 0546:20                 | 410             | 210                 | 22900           | 2               | 17, 15                   |          |
| 405            | 121 | 80/04/30                  | 0610:30                  | 0610:50                 | 45              | 80                  |                 | 2               |                          |          |
| 406            | 121 | 80/04/30                  | 0729:00                  | 0729:10                 | 35              | 90                  |                 | 3               |                          |          |
| 407            | 121 | 80/04/30                  | 0731:15                  | 0731:42                 | 45              | 82                  |                 | 2               |                          |          |
| 408            | 121 | 80/04/30                  | 0741:10                  | 0742:30                 | 115             | 79                  |                 | 2               |                          |          |
| 409            | 121 | 80/04/30                  | 0902:20                  | 0903:00                 | 70              | 75                  |                 | 2               |                          |          |
| 410            | 121 | 80/04/30                  | 1102:10                  | 1103:05                 | 185             | 195                 | 12200           | 2               | 17, 16                   | EN       |
| 411            | 121 | 80/04/30                  | 1141:40                  | 1142:00                 | 30              | 100                 | 1477            | 2               |                          | DG       |
| 412            | 121 | 80/04/30                  | 1407:35                  | 1407:45                 | 35              | 340                 | 4470            | 5               | 17, 17                   | FS       |
| 413            | 121 | 80/04/30                  | 1531:35                  | 1532:50                 | 140             | 185                 | 1760            | 5               | 17, 18                   |          |
| 414            | 121 | 80/04/30                  | 1545:55                  | 1548:45                 | 440             | 150                 | 11500           | 2               | 17, 19                   | EN       |
| 415            | 121 | 80/04/30                  | 1719:50                  | 1720:15                 | 40              | 150                 | 654             | 4               | 18, 1                    |          |
| 416            | 121 | 80/04/30                  | 2021:10                  | 2022:50                 | 310             | 680                 | 54000           | 6               | 18, 2                    |          |
| 417            | 122 | 80/05/01                  | 0047:20                  | 0048:00                 | 110             | 80                  |                 | 2               |                          |          |
| 418            | 122 | 80/05/01                  | 0717:00                  | 0717:05                 | 8               | 80                  |                 | 2               |                          |          |
| 419            | 122 | 80/05/01                  | 1627:00                  | 1628:30                 | 1100            | 1480                | 2.97E+05        | 5               | 18, 3                    | SN,ES    |
| 420            | 122 | 80/05/01                  | 1839:40                  | 1841:10                 | 135             | 100                 | 2804            | 2               |                          |          |
| 6631           | 122 | 80/05/01                  | 1948:00                  | 2002:55                 | 1778            | 88                  | 61564           | 5               | 209, 7                   | ND       |
| 421            | 122 | 80/05/01                  | 2117:50                  | 2119:50                 | 450             | 120                 | 15000           | 6               | 18, 5                    |          |
| 422            | 123 | 80/05/02                  | 0030:50                  | 0033:45                 | 265             | 115                 | 4100            | 3               | 18, 6                    |          |
| 423            | 123 | 80/05/02                  | 0400:02                  | 0402:00                 | 115             | 96                  |                 | 2               |                          |          |
| 424            | 123 | 80/05/02                  | 0436:20                  | 0436:30                 | 30              | 110                 | 750             | 4               | 18, 7                    |          |
| 425            | 123 | 80/05/02                  | 0531:50                  | 0532:00                 | 20              | 100                 | 910             | 2               | 18, 8                    |          |
| 426            | 123 | 80/05/02                  | 0537:30                  | 0538:40                 | 80              | 220                 | 1920            | 5               | 18, 8                    |          |
| 427            | 123 | 80/05/02                  | 0553:50                  | 0555:20                 | 160             | 66                  |                 | 2               |                          |          |
| 428            | 124 | 80/05/03                  | 0204:10                  | 0205:30                 | 190             | 2080                | 81640           | 8               | 18, 9                    |          |
| 429            | 124 | 80/05/03                  | 0355:10                  | 0355:25                 | 70              | 105                 | 1448            | 2               |                          |          |
| 430            | 124 | 80/05/03                  | 0419:08                  | 0419:20                 | 30              | 65                  |                 | 2               |                          |          |
| 431            | 124 | 80/05/03                  | 0722:05                  | 0722:12                 | 40              | 72                  |                 | 2               |                          |          |
| 432            | 124 | 80/05/03                  | 1312:40                  | 1315:10                 | 520             | 150                 | 22400           | 4               | 18, 10                   | SN,ES    |
| 433            | 124 | 80/05/03                  | 1822:30                  | 1822:42                 | 70              | 88                  |                 | 2               |                          |          |
| 434            | 124 | 80/05/03                  | 1829:40                  | 1829:55                 | 40              | 60                  |                 | 2               |                          |          |
| 435            | 124 | 80/05/03                  | 2112:55                  | 2124:25                 | 800             | 130                 | 10050           | 5               | 18, 11                   |          |
| 436            | 124 | 80/05/03                  | 2317:00                  | 2317:18                 | 130             | 550                 | 10900           | 6               | 18, 12                   |          |
| 437            | 125 | 80/05/04                  | 0041:05                  | 0041:35                 | 245             | 240                 | 6600            | 5               | 18, 13                   |          |
| 438            | 125 | 80/05/04                  | 0427:30                  | 0428:25                 | 80              | 90                  |                 | 4               |                          |          |
| 439            | 125 | 80/05/04                  | 1034:42                  | 1034:46                 | 8               | 100                 | 331             | 2               |                          |          |
| 440            | 125 | 80/05/04                  | 1201:30                  | 1202:00                 | 140             | 122                 | 4300            | 2               | 18, 14                   |          |
| 441            | 125 | 80/05/04                  | 1823:45                  | 1824:45                 | 240             | 290                 | 11919           | 5               | 18, 15                   |          |
| 442            | 125 | 80/05/04                  | 2014:45                  | 2014:55                 | 25              | 122                 | 651             | 5               | 18, 16                   |          |
| 443            | 125 | 80/05/04                  | 2020:00                  | 2020:35                 | 130             | 65                  |                 | 2               |                          |          |
| 444            | 125 | 80/05/04                  | 2111:00                  | 2112:00                 | 550             | 118                 | 14458           | 10              | 18, 17                   | M ,SN,AX |
| 445            | 125 | 80/05/04                  | 2203:10                  | 2203:48                 | 60              | 275                 | 3615            | 10              | 18, 18                   |          |
| 446            | 125 | 80/05/04                  | 2335:04                  | 2338:55                 | 250             | 75                  |                 | 2               |                          |          |
| 447            | 126 | 80/05/05                  | 0256:20                  | 0256:55                 | 55              | 260                 | 2408            | 5               | 18, 19                   | EN       |
| 448            | 126 | 80/05/05                  | 0407:00                  | 0408:10                 | 100             | 133                 | 1679            | 5               | 18, 20                   |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HH:MM:SS | PEAK<br>TIME<br>HH:MM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 449            | 126 | 80/05/05                  | 0430:00                   | 0430:30                  | 60              | 52                  |                 | 2               |                          |       |
| 450            | 126 | 80/05/05                  | 0525:04                   | 0525:12                  | 50              | 82                  |                 | 2               |                          |       |
| 451            | 126 | 80/05/05                  | 1050:47                   | 1051:15                  | 90              | 76                  |                 | 2               |                          |       |
| 452            | 126 | 80/05/05                  | 2109:00                   | 2111:40                  | 220             | 73                  |                 | 5               |                          |       |
| 453            | 126 | 80/05/05                  | 2307:26                   | 2307:46                  | 50              | 69                  |                 | 2               |                          |       |
| 454            | 126 | 80/05/05                  | 2333:10                   | 2333:29                  | 60              | 90                  |                 | 2               |                          |       |
| 455            | 127 | 80/05/06                  | 0406:40                   | 0407:04                  | 60              | 140                 | 185             | 5               |                          |       |
| 456            | 127 | 80/05/06                  | 1808:30                   | 1809:48                  | 155             | 400                 | 11259           | 5               |                          | DG,ND |
| 457            | 128 | 80/05/07                  | 0240:00                   | 0240:50                  | 90              | 68                  |                 | 2               |                          |       |
| 458            | 128 | 80/05/07                  | 0403:08                   | 0403:39                  | 470             | 2600                | 14062           | 15              | 19, 1                    | M,FS  |
| 459            | 128 | 80/05/07                  | 1032:59                   | 1034:02                  | 180             | 130                 | 4925            | 2               |                          |       |
| 460            | 128 | 80/05/07                  | 1307:04                   | 1308:33                  | 145             | 113                 | 4250            | 5               |                          |       |
| 461            | 128 | 80/05/07                  | 1455:19                   | 1456:06                  | 150             | 3600                | 66419           | 10              | 19, 2                    | M,FS  |
| 462            | 128 | 80/05/07                  | 1714:11                   | 1714:30                  | 75              | 66                  |                 | 2               |                          |       |
| 463            | 128 | 80/05/07                  | 2118:04                   | 2118:16                  | 30              | 54                  |                 | 2               |                          |       |
| 464            | 128 | 80/05/07                  | 2321:15                   | 2323:10                  | 545             | 220                 | 13914           | 5               | 19, 5                    |       |
| 465            | 129 | 80/05/08                  | 0018:15                   | 0018:30                  | 30              | 78                  |                 | 3               |                          |       |
| 466            | 129 | 80/05/08                  | 0056:25                   | 0057:35                  | 385             | 3550                | 1.94E+05        | 12              | 19, 6                    | M     |
| 467            | 129 | 80/05/08                  | 0419:37                   | 0419:50                  | 94              | 460                 | 6260            | 5               | 19, 8                    |       |
| 468            | 129 | 80/05/08                  | 0423:16                   | 0423:25                  | 72              | 71                  |                 | 2               | 19, 8                    |       |
| 469            | 129 | 80/05/08                  | 0843:04                   | 0843:20                  | 45              | 130                 | 929             | 4               | 19, 9                    |       |
| 470            | 129 | 80/05/08                  | 0909:38                   | 0910:30                  | 130             | 110                 | 2039            | 3               |                          |       |
| 471            | 129 | 80/05/08                  | 1340:00                   | 1342:00                  | 350             | 440                 | 39340           | 8               | 19, 10                   |       |
| 472            | 129 | 80/05/08                  | 1404:28                   | 1404:50                  | 45              | 85                  |                 | 3               |                          | EN    |
| 473            | 129 | 80/05/08                  | 1935:50                   | 1937:10                  | 440             | 1980                | 66000           | 7               | 19, 11                   | M     |
| 474            | 129 | 80/05/08                  | 2104:45                   | 2105:30                  | 100             | 85                  |                 | 5               |                          |       |
| 475            | 129 | 80/05/08                  | 2133:10                   | 2134:00                  | 280             | 85                  | 3940            | 2               | 19, 13                   |       |
| 476            | 130 | 80/05/09                  | 0338:55                   | 0339:00                  | 20              | 115                 | 530             | 2               | 19, 14                   |       |
| 477            | 130 | 80/05/09                  | 0531:30                   | 0532:20                  | 100             | 80                  |                 | 2               |                          |       |
| 478            | 130 | 80/05/09                  | 0541:25                   | 0541:50                  | 60              | 82                  |                 | 2               |                          |       |
| 479            | 130 | 80/05/09                  | 0711:05                   | 0712:35                  | 635             | 10800               | 6.94E+05        | 15              | 20, 1                    | M,FS  |
| 480            | 130 | 80/05/09                  | 1032:40                   | 1035:00                  | 195             | 135                 | 2210            | 2               | 20, 3                    |       |
| 481            | 130 | 80/05/09                  | 1521:55                   | 1523:25                  | 140             | 110                 | 5428            | 2               | 20, 4                    | ND    |
| 482            | 130 | 80/05/09                  | 2007:41                   | 2008:09                  | 600             | 70                  |                 | 2               |                          | EW    |
| 483            | 131 | 80/05/10                  | 0200:09                   | 0201:29                  | 360             | 68                  |                 | 2               |                          |       |
| 484            | 131 | 80/05/10                  | 0518:00                   | 0518:50                  | 80              | 106                 | 1319            | 3               | 20, 5                    |       |
| 485            | 131 | 80/05/10                  | 0526:25                   | 0526:50                  | 80              | 135                 | 1483            | 2               | 20, 5                    |       |
| 486            | 131 | 80/05/10                  | 1505:10                   | 1505:58                  | 64              | 55                  |                 | 2               |                          | ND    |
| 487            | 131 | 80/05/10                  | 1757:12                   | 1757:13                  | 200             | 440                 | 7766            | 10              | 20, 6                    | FS    |
| 488            | 131 | 80/05/10                  | 1951:28                   | 1952:08                  | 230             | 1750                | 98102           | 10              | 20, 7                    |       |
| 489            | 131 | 80/05/10                  | 2004:20                   | 2004:50                  | 60              | 100                 | 1790            | 2               |                          |       |
| 490            | 131 | 80/05/10                  | 2015:00                   | 2015:05                  | 60              | 98                  |                 | 2               |                          |       |
| 491            | 131 | 80/05/10                  | 2021:10                   | 2021:20                  | 180             | 200                 | 5031            | 10              | 20, 8                    |       |
| 495            | 133 | 80/05/12                  | 0555:40                   | 0557:50                  | 220             | 150                 | 2138            | 5               | 20, 10                   |       |
| 492            | 133 | 80/05/12                  | 1013:40                   | 1014:36                  | 130             | 610                 | 15163           | 5               | 20, 9                    | EW    |
| 493            | 133 | 80/05/12                  | 1339:45                   | 1340:18                  | 60              | 82                  |                 | 2               |                          | EW    |
| 494            | 133 | 80/05/12                  | 1628:48                   | 1629:17                  | 80              | 87                  |                 | 2               |                          |       |
| 496            | 134 | 80/05/13                  | 0210:50                   | 0211:15                  | 60              | 60                  |                 | 2               |                          |       |
| 501            | 135 | 80/05/14                  | 0853:00                   | 0853:20                  | 50              | 90                  |                 | 2               |                          |       |
| 497            | 135 | 80/05/14                  | 1005:42                   | 1006:00                  | 50              | 60                  |                 | 2               |                          |       |
| 498            | 135 | 80/05/14                  | 1009:19                   | 1009:39                  | 125             | 65                  |                 | 2               |                          |       |
| 499            | 135 | 80/05/14                  | 1256:34                   | 1257:25                  | 960             | 1500                | 1.18E+05        | 14              | 20, 11                   |       |
| 500            | 135 | 80/05/14                  | 1332:00                   | 1332:20                  | 60              | 65                  |                 | 2               |                          |       |
| 4268           | 135 | 80/05/14                  | 1437:50                   | 1438:05                  | 30              | 64                  |                 | 5               |                          | I     |
| 4269           | 135 | 80/05/14                  | 1517:35                   | 1520:19                  | 280             | 78                  |                 | 2               | 143, 11                  | I     |
| 502            | 135 | 80/05/14                  | 1920:00                   | 1920:18                  | 100             | 720                 | 14381           | 5               | 20, 12                   |       |
| 6752           | 136 | 80/05/15                  | 0102:05                   | 0102:56                  | 301             | 2235                | 44927           | 6               | 212, 2                   | ND    |
| 503            | 136 | 80/05/15                  | 1956:57                   | 1959:56                  | 240             | 87                  |                 | 2               |                          |       |
| 504            | 136 | 80/05/15                  | 2139:20                   | 2139:58                  | 60              | 104                 | 1228            | 2               |                          |       |
| 505            | 137 | 80/05/16                  | 0012:40                   | 0013:20                  | 100             | 160                 | 2262            | 2               | 20, 13                   |       |
| 506            | 137 | 80/05/16                  | 2058:20                   | 2058:30                  | 80              | 73                  |                 | 2               |                          |       |
| 507            | 137 | 80/05/16                  | 2108:10                   | 2108:20                  | 40              | 93                  |                 | 5               |                          |       |
| 508            | 137 | 80/05/16                  | 2230:20                   | 2230:43                  | 320             | 164                 | 15466           | 5               | 20, 14                   |       |
| 509            | 137 | 80/05/16                  | 2243:20                   | 2244:04                  | 260             | 123                 | 1442            | 2               | 20, 14                   |       |
| 510            | 137 | 80/05/16                  | 2250:00                   | 2250:42                  | 240             | 108                 | 2777            | 5               | 20, 14                   |       |
| 511            | 138 | 80/05/17                  | 0144:00                   | 0144:32                  | 80              | 250                 | 2384            | 5               | 20, 15                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 512            | 138 | 80/05/17                  | 0202:25                  | 0202:45                 | 480             | 108                 | 7807            | 2               |                          |        |
| 513            | 138 | 80/05/17                  | 0221:04                  | 0221:54                 | 100             | 80                  |                 | 2               |                          |        |
| 514            | 138 | 80/05/17                  | 0540:19                  | 0540:57                 | 70              | 87                  |                 | 2               |                          |        |
| 515            | 138 | 80/05/17                  | 0635:51                  | 0637:07                 | 185             | 96                  |                 | 2               |                          | SA     |
| 516            | 138 | 80/05/17                  | 1009:20                  | 1012:45                 | 500             | 107                 | 10607           | 5               |                          |        |
| 517            | 138 | 80/05/17                  | 1322:55                  | 1323:17                 | 35              | 250                 | 1507            | 5               | 20, 16                   |        |
| 518            | 139 | 80/05/18                  | 0349:20                  | 0350:00                 | 160             | 87                  |                 | 2               |                          |        |
| 4270           | 139 | 80/05/18                  | 0817:50                  | 0819:40                 | 1630            | 122                 | 69400           | 5               | 143, 12                  | M, I   |
| 519            | 139 | 80/05/18                  | 1254:08                  | 1254:45                 | 90              | 115                 | 1835            | 2               |                          |        |
| 520            | 139 | 80/05/18                  | 1342:20                  | 1344:48                 | 250             | 87                  | 1193            | 2               |                          |        |
| 521            | 140 | 80/05/19                  | 0538:40                  | 0539:18                 | 135             | 420                 | 11207           | 5               | 21, 1                    |        |
| 522            | 140 | 80/05/19                  | 1452:20                  | 1452:42                 | 40              | 108                 | 740             | 5               |                          |        |
| 523            | 140 | 80/05/19                  | 1520:20                  | 1520:47                 | 120             | 98                  |                 | 5               |                          |        |
| 524            | 140 | 80/05/19                  | 1736:04                  | 1737:04                 | 87              | 58                  |                 | 2               |                          |        |
| 525            | 141 | 80/05/20                  | 0210:00                  | 0211:20                 | 110             | 85                  | 522             | 2               | 21, 2                    |        |
| 526            | 141 | 80/05/20                  | 0216:00                  | 0218:20                 | 380             | 171                 | 7225            | 5               | 21, 2                    |        |
| 527            | 141 | 80/05/20                  | 0629:44                  | 0630:40                 | 65              | 114                 | 1955            | 2               | 21, 3                    |        |
| 528            | 141 | 80/05/20                  | 0956:45                  | 0957:12                 | 50              | 68                  |                 | 2               |                          |        |
| 529            | 141 | 80/05/20                  | 1117:50                  | 1120:00                 | 220             | 76                  |                 | 2               |                          |        |
| 530            | 141 | 80/05/20                  | 1205:40                  | 1207:39                 | 117             | 71                  |                 | 2               |                          |        |
| 531            | 141 | 80/05/20                  | 1423:25                  | 1426:20                 | 3600            | 65                  |                 | 2               |                          | SN     |
| 532            | 141 | 80/05/20                  | 1939:20                  | 1939:56                 | 60              | 198                 | 1351            | 5               | 21, 4                    |        |
| 533            | 141 | 80/05/20                  | 2304:25                  | 2304:52                 | 51              | 91                  |                 | 2               |                          |        |
| 534            | 142 | 80/05/21                  | 0324:40                  | 0325:41                 | 160             | 82                  |                 | 2               |                          |        |
| 535            | 142 | 80/05/21                  | 0519:42                  | 0520:28                 | 126             | 70                  |                 | 2               |                          |        |
| 536            | 142 | 80/05/21                  | 1206:48                  | 1207:48                 | 100             | 60                  |                 | 2               |                          |        |
| 537            | 142 | 80/05/21                  | 1448:15                  | 1448:40                 | 300             | 300                 | 14867           | 2               | 21, 6                    |        |
| 538            | 142 | 80/05/21                  | 2053:35                  | 2055:53                 | 2376            | 14300               | 3.01E+06        | 15              | 21, 7                    | M, ES  |
| 539            | 143 | 80/05/22                  | 0200:30                  | 0201:26                 | 90              | 87                  |                 | 2               |                          |        |
| 540            | 143 | 80/05/22                  | 2053:37                  | 2100:54                 | 665             | 154                 | 51780           | 2               | 21, 8                    |        |
| 541            | 143 | 80/05/22                  | 2257:10                  | 2257:30                 | 30              | 84                  |                 | 2               |                          |        |
| 6753           | 144 | 80/05/23                  | 0623:36                  | 0624:10                 | 142             | 69                  |                 | 2               |                          |        |
| 542            | 144 | 80/05/23                  | 0950:30                  | 0950:40                 | 10              | 95                  |                 | 2               |                          |        |
| 543            | 144 | 80/05/23                  | 0953:50                  | 0954:10                 | 30              | 81                  |                 | 2               |                          |        |
| 544            | 144 | 80/05/23                  | 1023:50                  | 1024:00                 | 10              | 76                  |                 | 2               |                          |        |
| 545            | 144 | 80/05/23                  | 1156:40                  | 1156:50                 | 30              | 114                 | 596             | 2               |                          |        |
| 546            | 144 | 80/05/23                  | 1440:40                  | 1441:15                 | 100             | 345                 | 8487            | 5               | 21, 9                    |        |
| 547            | 144 | 80/05/23                  | 1444:45                  | 1444:52                 | 15              | 75                  |                 | 2               | 21, 9                    |        |
| 548            | 144 | 80/05/23                  | 1445:40                  | 1445:50                 | 40              | 160                 | 1255            | 2               | 21, 9                    |        |
| 549            | 144 | 80/05/23                  | 1450:18                  | 1450:47                 | 120             | 61                  |                 | 2               |                          |        |
| 550            | 144 | 80/05/23                  | 2258:47                  | 2259:10                 | 90              | 204                 | 2680            | 2               | 21, 10                   |        |
| 551            | 144 | 80/05/23                  | 2302:40                  | 2302:45                 | 10              | 6380                |                 | 14              | 21, 10                   | AX     |
| 552            | 145 | 80/05/24                  | 0018:12                  | 0018:30                 | 100             | 147                 | 1401            | 2               |                          |        |
| 553            | 145 | 80/05/24                  | 0047:30                  | 0050:30                 | 260             | 185                 | 9339            | 2               | 21, 11                   | ES     |
| 554            | 145 | 80/05/24                  | 0622:40                  | 0624:50                 | 400             | 102                 | 3877            | 2               | 21, 12                   | SN     |
| 555            | 145 | 80/05/24                  | 0652:50                  | 0653:40                 | 160             | 149                 | 3536            | 2               | 21, 13                   |        |
| 556            | 145 | 80/05/24                  | 0829:50                  | 0830:20                 | 50              | 85                  |                 | 2               |                          |        |
| 557            | 145 | 80/05/24                  | 0832:40                  | 0833:30                 | 70              | 117                 | 2826            | 2               |                          |        |
| 558            | 145 | 80/05/24                  | 1135:50                  | 1135:50                 | 25              | 74                  |                 | 2               |                          |        |
| 559            | 145 | 80/05/24                  | 1316:30                  | 1316:50                 | 40              | 75                  |                 | 2               |                          |        |
| 560            | 145 | 80/05/24                  | 1319:10                  | 1319:25                 | 30              | 70                  |                 | 2               |                          |        |
| 561            | 145 | 80/05/24                  | 1505:00                  | 1510:10                 | 360             | 83                  |                 | 5               | 22, 1                    | AX     |
| 562            | 146 | 80/05/25                  | 0032:50                  | 0038:20                 | 780             | 70                  | 2780            | 2               | 22, 2                    |        |
| 563            | 146 | 80/05/25                  | 0127:30                  | 0130:21                 | 880             | 198                 | 30727           | 5               | 22, 3                    | SN, ES |
| 564            | 146 | 80/05/25                  | 0327:10                  | 0327:50                 | 110             | 212                 | 5135            | 5               | 22, 4                    |        |
| 565            | 146 | 80/05/25                  | 1238:50                  | 1239:20                 | 60              | 70                  |                 | 2               |                          |        |
| 566            | 146 | 80/05/25                  | 1550:20                  | 1550:40                 | 80              | 90                  |                 | 2               |                          | SN     |
| 567            | 146 | 80/05/25                  | 1727:30                  | 1727:50                 | 65              | 61                  |                 | 2               |                          |        |
| 568            | 146 | 80/05/25                  | 1729:30                  | 1729:35                 | 35              | 66                  |                 | 2               |                          |        |
| 569            | 146 | 80/05/25                  | 2052:40                  | 2052:50                 | 25              | 77                  |                 | 5               |                          |        |
| 570            | 146 | 80/05/25                  | 2354:20                  | 2356:00                 | 670             | 146                 | 8537            | 5               | 22, 5                    |        |
| 571            | 147 | 80/05/26                  | 1304:06                  | 1305:38                 | 170             | 80                  |                 | 2               |                          |        |
| 572            | 147 | 80/05/26                  | 1424:13                  | 1425:39                 | 280             | 118                 | 1280            | 2               | 22, 6                    |        |
| 573            | 147 | 80/05/26                  | 1613:44                  | 1614:58                 | 135             | 77                  |                 | 2               |                          |        |
| 574            | 147 | 80/05/26                  | 1727:47                  | 1728:08                 | 140             | 260                 | 5502            | 5               | 22, 7                    |        |
| 575            | 148 | 80/05/27                  | 0501:00                  | 0502:32                 | 168             | 92                  |                 | 5               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 576            | 148 | 80/05/27                  | 0821:00                  | 0821:45                 | 215             | 258                 | 10780           | 5               | 22, 8                    |       |
| 577            | 148 | 80/05/27                  | 1600:01                  | 1600:40                 | 147             | 590                 | 16109           | 5               | 22, 9                    |       |
| 578            | 148 | 80/05/27                  | 2103:41                  | 2104:38                 | 140             | 990                 | 26857           | 5               | 23, 1                    |       |
| 579            | 149 | 80/05/28                  | 0209:08                  | 0209:48                 | 95              | 375                 | 12128           | 5               | 23, 2                    |       |
| 580            | 149 | 80/05/28                  | 0213:20                  | 0215:16                 | 280             | 2334                | 1.18E+05        | 5               | 23, 2                    |       |
| 581            | 149 | 80/05/28                  | 0938:21                  | 0938:39                 | 55              | 78                  |                 | 2               |                          |       |
| 582            | 149 | 80/05/28                  | 1005:17                  | 1005:23                 | 20              | 98                  |                 | 2               |                          |       |
| 583            | 149 | 80/05/28                  | 1007:44                  | 1008:29                 | 70              | 73                  |                 | 2               |                          |       |
| 584            | 149 | 80/05/28                  | 1418:50                  | 1419:25                 | 90              | 595                 | 16384           | 5               | 23, 3                    | FS    |
| 585            | 149 | 80/05/28                  | 1550:00                  | 1552:20                 | 1090            | 315                 | 35701           | 10              | 23, 4                    |       |
| 586            | 149 | 80/05/28                  | 1719:58                  | 1720:20                 | 700             | 513                 | 97500           | 5               | 23, 5                    | SN    |
| 587            | 149 | 80/05/28                  | 2207:30                  | 2207:45                 | 403             | 228                 | 18661           | 2               | 23, 6                    |       |
| 588            | 149 | 80/05/28                  | 2219:25                  | 2219:55                 | 92              | 107                 | 573             | 2               | 23, 6                    |       |
| 589            | 149 | 80/05/28                  | 2343:30                  | 2343:30                 | 1070            | 1558                | 1.26E+05        | 15              |                          | SN,ND |
| 590            | 150 | 80/05/29                  | 0332:52                  | 0334:41                 | 240             | 93                  | 1125            | 2               | 23, 7                    |       |
| 591            | 150 | 80/05/29                  | 0339:55                  | 0340:20                 | 600             | 89                  |                 | 5               | 23, 7                    |       |
| 592            | 150 | 80/05/29                  | 0509:20                  | 0510:50                 | 1220            | 755                 | 64502           | 11              | 23, 8                    |       |
| 593            | 150 | 80/05/29                  | 0643:50                  | 0644:10                 | 40              | 88                  |                 | 2               |                          |       |
| 594            | 150 | 80/05/29                  | 0755:35                  | 0757:20                 | 250             | 84                  |                 | 2               | 23, 9                    |       |
| 595            | 150 | 80/05/29                  | 0947:50                  | 0948:50                 | 90              | 82                  |                 | 5               |                          |       |
| 596            | 150 | 80/05/29                  | 1005:50                  | 1006:20                 | 50              | 79                  |                 | 5               |                          |       |
| 597            | 150 | 80/05/29                  | 1111:50                  | 1112:30                 | 80              | 76                  |                 | 2               |                          |       |
| 598            | 150 | 80/05/29                  | 1146:40                  | 1147:10                 | 50              | 80                  |                 | 2               |                          |       |
| 599            | 150 | 80/05/29                  | 2351:40                  | 2352:05                 | 70              | 99                  |                 | 2               |                          |       |
| 600            | 151 | 80/05/30                  | 0201:12                  | 0201:25                 | 30              | 120                 | 413             | 5               |                          |       |
| 601            | 151 | 80/05/30                  | 1055:50                  | 1056:45                 | 70              | 68                  |                 | 2               |                          |       |
| 602            | 151 | 80/05/30                  | 2051:22                  | 2052:24                 | 114             | 117                 | 1789            | 5               | 24, 1                    |       |
| 603            | 152 | 80/05/31                  | 0612:20                  | 0612:39                 | 145             | 83                  |                 | 2               |                          |       |
| 604            | 152 | 80/05/31                  | 0743:48                  | 0744:18                 | 110             | 253                 | 5652            | 5               | 24, 2                    |       |
| 605            | 152 | 80/05/31                  | 2047:40                  | 2048:20                 | 70              | 83                  |                 | 2               |                          |       |
| 606            | 153 | 80/06/01                  | 0029:00                  | 0029:10                 | 30              | 97                  |                 | 5               |                          |       |
| 607            | 153 | 80/06/01                  | 1719:00                  | 1719:30                 | 170             | 74                  |                 | 2               |                          | SN    |
| 608            | 153 | 80/06/01                  | 1923:00                  | 1926:20                 | 240             | 195                 | 13312           | 2               | 24, 3                    | ES    |
| 609            | 153 | 80/06/01                  | 2057:10                  | 2057:30                 | 40              | 106                 | 501             | 2               |                          |       |
| 610            | 153 | 80/06/01                  | 2058:00                  | 2058:20                 | 60              | 120                 | 922             | 5               |                          |       |
| 611            | 154 | 80/06/02                  | 0012:30                  | 0013:20                 | 65              | 148                 | 799             | 2               |                          |       |
| 612            | 154 | 80/06/02                  | 0306:20                  | 0306:50                 | 40              | 92                  |                 | 2               |                          |       |
| 613            | 154 | 80/06/02                  | 0821:00                  | 0822:10                 | 100             | 179                 | 2964            | 2               | 24, 4                    |       |
| 614            | 154 | 80/06/02                  | 0917:50                  | 0918:30                 | 380             | 85                  |                 | 2               | 24                       |       |
| 615            | 154 | 80/06/02                  | 0933:00                  | 0933:25                 | 95              | 77                  |                 | 2               |                          |       |
| 616            | 154 | 80/06/02                  | 1225:05                  | 1225:25                 | 30              | 82                  |                 | 2               |                          |       |
| 617            | 154 | 80/06/02                  | 1406:50                  | 1407:00                 | 25              | 75                  |                 | 2               |                          |       |
| 618            | 154 | 80/06/02                  | 1549:30                  | 1550:00                 | 55              | 77                  |                 | 2               |                          |       |
| 619            | 154 | 80/06/02                  | 2357:42                  | 2358:22                 | 108             | 86                  |                 | 2               |                          |       |
| 620            | 155 | 80/06/03                  | 0013:18                  | 0017:07                 | 383             | 88                  |                 | 2               |                          |       |
| 621            | 155 | 80/06/03                  | 0740:04                  | 0741:41                 | 399             | 137                 | 3407            | 5               | 24, 6                    |       |
| 622            | 155 | 80/06/03                  | 0753:54                  | 0754:52                 | 510             | 106                 | 6606            | 5               | 24, 6                    |       |
| 623            | 155 | 80/06/03                  | 0803:43                  | 0807:24                 | 551             | 144                 | 19427           | 3               | 24, 6                    |       |
| 624            | 155 | 80/06/03                  | 0934:13                  | 0935:23                 | 102             | 57                  |                 | 2               |                          |       |
| 625            | 155 | 80/06/03                  | 0939:03                  | 0942:08                 | 362             | 197                 | 12250           | 5               | 24, 7                    |       |
| 626            | 155 | 80/06/03                  | 1139:12                  | 1142:20                 | 490             | 908                 | 69495           | 5               | 24, 8                    |       |
| 627            | 155 | 80/06/03                  | 1411:58                  | 1414:04                 | 337             | 336                 | 23231           | 3               | 24, 9                    |       |
| 628            | 155 | 80/06/03                  | 2042:56                  | 2043:18                 | 38              | 90                  |                 | 2               |                          |       |
| 629            | 155 | 80/06/03                  | 2100:34                  | 2100:57                 | 130             | 137                 | 1305            | 2               | 24, 10                   |       |
| 630            | 155 | 80/06/03                  | 2103:40                  | 2104:06                 | 80              | 90                  |                 | 2               | 24, 10                   |       |
| 631            | 156 | 80/06/04                  | 0002:05                  | 0003:16                 | 350             | 166                 | 12497           | 2               | 24, 11                   |       |
| 632            | 156 | 80/06/04                  | 0015:30                  | 0016:28                 | 264             | 97                  | 2340            | 2               | 25, 1                    |       |
| 633            | 156 | 80/06/04                  | 0207:49                  | 0208:43                 | 90              | 112                 | 1523            | 2               | 25, 2                    |       |
| 634            | 156 | 80/06/04                  | 0653:56                  | 0654:37                 | 279             | 35200               | 1.37E+06        | 15              | 25, 3                    | FS    |
| 635            | 156 | 80/06/04                  | 0751:50                  | 0834:14                 | 2539            | 568                 | 2.63E+05        | 10              | 25, 4                    | EN    |
| 636            | 156 | 80/06/04                  | 0907:53                  | 0911:02                 | 480             | 104                 | 7110            | 2               | 25, 5                    |       |
| 637            | 156 | 80/06/04                  | 0954:31                  | 0956:10                 | 213             | 77                  |                 | 2               |                          |       |
| 638            | 156 | 80/06/04                  | 1054:00                  | 1054:40                 | 80              | 128                 | 1059            | 2               |                          |       |
| 639            | 156 | 80/06/04                  | 1405:40                  | 1406:40                 | 120             | 101                 | 1232            | 2               | 25, 6                    |       |
| 640            | 156 | 80/06/04                  | 1533:40                  | 1534:05                 | 30              | 128                 | 1558            | 5               |                          |       |
| 641            | 156 | 80/06/04                  | 1738:00                  | 1738:10                 | 40              | 131                 | 1091            | 2               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 642            | 156 | 80/06/04                  | 2057:45                  | 2058:05                 | 30              | 80                  |                 | 2               |                          |        |
| 643            | 157 | 80/06/05                  | 0021:50                  | 0026:10                 | 710             | 190                 | 28700           | 2               | 25, 7                    |        |
| 644            | 157 | 80/06/05                  | 0128:30                  | 0129:25                 | 90              | 109                 | 1496            | 2               |                          |        |
| 645            | 157 | 80/06/05                  | 0246:50                  | 0247:00                 | 10              | 92                  |                 | 5               |                          |        |
| 646            | 157 | 80/06/05                  | 0419:30                  | 0422:00                 | 210             | 85                  |                 | 2               |                          |        |
| 647            | 157 | 80/06/05                  | 0448:10                  | 0448:40                 | 150             | 70                  |                 | 2               | 25, 8                    |        |
| 648            | 157 | 80/06/05                  | 0453:20                  | 0454:00                 | 230             | 160                 | 3219            | 2               | 25, 8                    |        |
| 649            | 157 | 80/06/05                  | 0604:40                  | 0605:50                 | 160             | 220                 | 5439            | 5               | 25, 9                    |        |
| 650            | 157 | 80/06/05                  | 0629:30                  | 0629:35                 | 90              | 70                  |                 | 2               |                          |        |
| 651            | 157 | 80/06/05                  | 0645:20                  | 0645:40                 | 50              | 525                 | 6393            | 5               | 25, 10                   |        |
| 652            | 157 | 80/06/05                  | 0652:00                  | 0653:00                 | 195             | 75                  |                 | 2               |                          |        |
| 653            | 157 | 80/06/05                  | 0954:10                  | 0954:40                 | 60              | 95                  |                 | 2               |                          |        |
| 654            | 157 | 80/06/05                  | 1135:40                  | 1136:10                 | 210             | 120                 | 5121            | 2               | 25, 11                   |        |
| 655            | 157 | 80/06/05                  | 1224:50                  | 1225:10                 | 40              | 90                  |                 | 2               |                          |        |
| 656            | 157 | 80/06/05                  | 1314:10                  | 1314:30                 | 40              | 98                  |                 | 2               |                          |        |
| 657            | 157 | 80/06/05                  | 1359:30                  | 1400:30                 | 110             | 170                 | 1474            | 5               | 25, 12                   |        |
| 658            | 157 | 80/06/05                  | 2027:40                  | 2028:40                 | 90              | 132                 | 1963            | 2               |                          |        |
| 659            | 157 | 80/06/05                  | 2031:56                  | 2032:10                 | 20              | 105                 | 600             | 5               |                          |        |
| 660            | 157 | 80/06/05                  | 2039:20                  | 2039:30                 | 30              | 104                 | 755             | 2               |                          |        |
| 661            | 157 | 80/06/05                  | 2221:10                  | 2221:20                 | 30              | 88                  |                 | 2               |                          |        |
| 662            | 157 | 80/06/05                  | 2230:05                  | 2230:20                 | 200             | 164                 | 2482            | 5               | 25, 13                   |        |
| 663            | 157 | 80/06/05                  | 2339:30                  | 2339:40                 | 20              | 131                 | 222             | 2               |                          |        |
| 664            | 157 | 80/06/05                  | 2340:20                  | 2342:30                 | 220             | 96                  | 3017            | 2               | 26, 1                    | ND     |
| 665            | 158 | 80/06/06                  | 0003:35                  | 0005:20                 | 166             | 81                  |                 | 2               |                          |        |
| 666            | 158 | 80/06/06                  | 0018:40                  | 0019:20                 | 94              | 100                 | 1808            | 2               |                          |        |
| 667            | 158 | 80/06/06                  | 0014:45                  | 0141:20                 | 87              | 166                 | 3021            | 2               |                          |        |
| 668            | 158 | 80/06/06                  | 0244:30                  | 0246:00                 | 227             | 177                 | 3564            | 5               | 26, 2                    |        |
| 669            | 158 | 80/06/06                  | 0341:21                  | 0344:18                 | 245             | 216                 | 4199            | 2               | 26, 3                    |        |
| 670            | 158 | 80/06/06                  | 0434:42                  | 0435:02                 | 45              | 91                  |                 | 2               |                          |        |
| 671            | 158 | 80/06/06                  | 0456:30                  | 0456:45                 | 91              | 79                  |                 | 2               |                          |        |
| 672            | 158 | 80/06/06                  | 0951:45                  | 0952:29                 | 85              | 194                 | 2384            | 5               | 26, 4                    |        |
| 673            | 158 | 80/06/06                  | 1125:40                  | 1126:34                 | 280             | 250                 | 2877            | 5               | 26, 5                    |        |
| 674            | 158 | 80/06/06                  | 1142:25                  | 1142:33                 | 35              | 8466                | 47208           | 15              | 26, 6                    | M, FS  |
| 675            | 158 | 80/06/06                  | 1217:02                  | 1217:18                 | 20              | 74                  |                 | 5               |                          |        |
| 676            | 158 | 80/06/06                  | 1355:30                  | 1356:40                 | 420             | 116                 | 4032            | 2               | 26, 7                    |        |
| 677            | 158 | 80/06/06                  | 1550:40                  | 1552:20                 | 130             | 296                 | 4581            | 5               | 26, 8                    | ES     |
| 678            | 158 | 80/06/06                  | 1710:30                  | 1722:10                 | 1474            | 201                 | 13393           | 5               | 26, 9                    |        |
| 679            | 158 | 80/06/06                  | 2334:15                  | 2334:47                 | 93              | 3558                | 29485           | 10              | 26, 10                   | M, FS  |
| 680            | 158 | 80/06/06                  | 2344:33                  | 2345:01                 | 94              | 102                 | 703             | 2               | 26, 12                   |        |
| 681            | 158 | 80/06/06                  | 2348:31                  | 2349:14                 | 65              | 74                  |                 | 2               |                          | ND     |
| 682            | 159 | 80/06/07                  | 0027:19                  | 0027:26                 | 21              | 85                  |                 | 2               |                          |        |
| 683            | 159 | 80/06/07                  | 0116:24                  | 0117:27                 | 368             | 8365                | 4.55E+05        | 15              | 27, 1                    | M, FS  |
| 684            | 159 | 80/06/07                  | 0244:16                  | 0244:43                 | 56              | 79                  |                 | 5               |                          |        |
| 685            | 159 | 80/06/07                  | 0247:57                  | 0248:54                 | 100             | 66                  |                 | 5               |                          |        |
| 686            | 159 | 80/06/07                  | 0251:49                  | 0252:30                 | 97              | 68                  |                 | 2               | 27, 3                    |        |
| 687            | 159 | 80/06/07                  | 0253:41                  | 0254:39                 | 321             | 144                 | 3331            | 5               | 27, 3                    |        |
| 688            | 159 | 80/06/07                  | 0310:51                  | 0312:15                 | 691             | 39391               | 1.33E+06        | 15              | 27, 4                    | M      |
| 689            | 159 | 80/06/07                  | 0554:02                  | 0554:17                 | 47              | 97                  | 255             | 5               | 27, 5                    |        |
| 690            | 159 | 80/06/07                  | 0615:15                  | 0615:34                 | 51              | 163                 | 2553            | 5               | 27, 6                    |        |
| 691            | 159 | 80/06/07                  | 0725:24                  | 0725:45                 | 104             | 398                 | 4547            | 10              | 27, 7                    | SN, FS |
| 692            | 159 | 80/06/07                  | 1123:11                  | 1125:40                 | 200             | 103                 | 7217            | 2               | 27, 8                    | SA     |
| 693            | 159 | 80/06/07                  | 1228:37                  | 1229:39                 | 980             | 113                 | 26305           | 2               |                          | ES     |
| 694            | 159 | 80/06/07                  | 1358:49                  | 1359:05                 | 49              | 75                  |                 | 2               |                          |        |
| 695            | 159 | 80/06/07                  | 1727:48                  | 1727:58                 | 29              | 78                  |                 | 2               |                          |        |
| 696            | 160 | 80/06/08                  | 0427:05                  | 0428:10                 | 495             | 438                 | 8027            | 5               | 27, 9                    | FS     |
| 697            | 160 | 80/06/08                  | 0616:30                  | 0617:10                 | 64              | 78                  |                 | 2               |                          |        |
| 698            | 160 | 80/06/08                  | 0727:15                  | 0727:30                 | 30              | 142                 | 1400            | 5               |                          |        |
| 699            | 160 | 80/06/08                  | 1036:10                  | 1036:45                 | 750             | 347                 | 81640           | 5               | 27, 10                   | SN, ES |
| 700            | 160 | 80/06/08                  | 1534:50                  | 1535:00                 | 20              | 84                  |                 | 2               |                          |        |
| 701            | 160 | 80/06/08                  | 1900:15                  | 1900:18                 | 11              | 102                 | 1305            | 2               |                          |        |
| 702            | 161 | 80/06/09                  | 0011:04                  | 0011:22                 | 63              | 128                 | 2212            | 5               | 27, 11                   |        |
| 703            | 161 | 80/06/09                  | 0108:01                  | 0108:18                 | 49              | 74                  |                 | 2               |                          |        |
| 704            | 161 | 80/06/09                  | 0113:08                  | 0113:33                 | 39              | 106                 | 375             | 5               | 27, 12                   |        |
| 705            | 161 | 80/06/09                  | 0141:49                  | 0142:42                 | 70              | 72                  |                 | 2               |                          |        |
| 706            | 161 | 80/06/09                  | 0251:16                  | 0251:30                 | 27              | 1102                | 6073            | 10              | 28, 1                    | FS     |
| 707            | 161 | 80/06/09                  | 0255:22                  | 0257:16                 | 161             | 174                 | 3515            | 5               | 28, 1                    | M      |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 708            | 162 | 80/06/10                  | 0252:56                  | 0254:53                 | 180             | 156                 | 4640            | 2               | 28, 3                    |        |
| 709            | 162 | 80/06/10                  | 0802:44                  | 0803:36                 | 70              | 73                  |                 | 2               |                          |        |
| 710            | 164 | 80/06/12                  | 0130:10                  | 0130:30                 | 43              | 141                 | 2845            | 5               |                          |        |
| 4275           | 164 | 80/06/12                  | 0559:25                  | 0559:46                 | 80              | 93                  |                 | 2               |                          | I      |
| 711            | 164 | 80/06/12                  | 2206:10                  | 2207:25                 | 140             | 453                 | 5494            | 5               | 28, 4                    |        |
| 712            | 165 | 80/06/13                  | 0256:56                  | 0257:07                 | 20              | 138                 | 1913            | 2               | 28, 5                    |        |
| 713            | 165 | 80/06/13                  | 0257:56                  | 0258:28                 | 80              | 388                 | 10759           | 5               | 28, 5                    |        |
| 714            | 165 | 80/06/13                  | 0621:21                  | 0622:25                 | 140             | 112                 | 2412            | 2               | 28, 6                    |        |
| 715            | 165 | 80/06/13                  | 0811:35                  | 0812:22                 | 640             | 227                 | 25687           | 5               | 28, 7                    |        |
| 716            | 165 | 80/06/13                  | 2232:20                  | 2234:03                 | 200             | 1524                | 1.22E+05        | 5               | 28, 8                    | M, EN  |
| 4299           | 166 | 80/06/14                  | 0111:20                  | 0114:00                 | 862             | 83                  | 3056            | 2               | 144, 7                   | I      |
| 717            | 166 | 80/06/14                  | 0623:35                  | 0631:34                 | 580             | 266                 | 10912           | 5               | 28, 9                    |        |
| 718            | 166 | 80/06/14                  | 1343:25                  | 1347:30                 | 600             | 108                 | 24841           | 5               | 28, 10                   | ES     |
| 719            | 166 | 80/06/14                  | 1658:00                  | 1701:40                 | 565             | 508                 | 21518           | 10              | 28, 11                   |        |
| 720            | 167 | 80/06/15                  | 0410:05                  | 0414:15                 | 480             | 88                  | 4141            | 10              | 28, 12                   |        |
| 721            | 167 | 80/06/15                  | 0423:40                  | 0426:25                 | 790             | 438                 | 53530           | 5               | 28, 12                   |        |
| 722            | 167 | 80/06/15                  | 0800:20                  | 0800:40                 | 65              | 174                 | 1898            | 2               |                          |        |
| 723            | 167 | 80/06/15                  | 0802:40                  | 0802:55                 | 55              | 76                  |                 | 2               |                          |        |
| 724            | 167 | 80/06/15                  | 0813:10                  | 0813:35                 | 87              | 88                  |                 | 2               |                          |        |
| 725            | 167 | 80/06/15                  | 1131:30                  | 1132:15                 | 110             | 195                 | 4380            | 5               | 28, 13                   | EN     |
| 726            | 167 | 80/06/15                  | 1305:05                  | 1305:25                 | 91              | 90                  |                 | 2               |                          |        |
| 727            | 167 | 80/06/15                  | 1439:30                  | 1439:55                 | 75              | 99                  |                 | 2               |                          |        |
| 728            | 167 | 80/06/15                  | 1530:25                  | 1531:55                 | 100             | 90                  |                 | 2               |                          |        |
| 729            | 167 | 80/06/15                  | 1844:03                  | 1844:57                 | 178             | 307                 | 9506            | 5               | 28, 14                   |        |
| 730            | 167 | 80/06/15                  | 2028:00                  | 2028:41                 | 110             | 100                 | 828             | 2               | 28, 15                   |        |
| 731            | 168 | 80/06/16                  | 2144:16                  | 2145:56                 | 360             | 103                 | 8729            | 10              | 29, 1                    | M      |
| 732            | 168 | 80/06/16                  | 2327:47                  | 2331:16                 | 440             | 100                 | 55719           | 2               | 29, 2                    |        |
| 733            | 169 | 80/06/17                  | 0003:40                  | 0016:03                 | 1020            | 105                 | 11561           | 2               | 29, 3                    |        |
| 734            | 169 | 80/06/17                  | 2143:20                  | 2144:50                 | 1170            | 70                  | 13300           | 5               | 29, 5                    |        |
| 735            | 170 | 80/06/18                  | 1852:10                  | 1853:40                 | 150             | 83                  |                 | 2               |                          |        |
| 4265           | 170 | 80/06/18                  | 2139:40                  | 2141:51                 | 496             | 100                 | 10651           | 3               | 143, 10                  | I      |
| 736            | 170 | 80/06/18                  | 2229:21                  | 2229:57                 | 60              | 82                  |                 | 5               |                          |        |
| 737            | 170 | 80/06/18                  | 2317:00                  | 2317:17                 | 29              | 74                  |                 | 2               |                          |        |
| 738            | 170 | 80/06/18                  | 2322:18                  | 2322:34                 | 55              | 85                  |                 | 2               |                          |        |
| 739            | 170 | 80/06/18                  | 2336:59                  | 2337:16                 | 99              | 343                 | 6315            | 10              | 29, 6                    | FS     |
| 740            | 171 | 80/06/19                  | 0002:38                  | 0004:18                 | 200             | 87                  | 2266            | 5               | 29, 7                    |        |
| 741            | 171 | 80/06/19                  | 0007:35                  | 0008:04                 | 57              | 129                 | 1115            | 5               | 29, 7                    |        |
| 742            | 171 | 80/06/19                  | 0134:05                  | 0134:15                 | 22              | 86                  |                 | 2               |                          |        |
| 743            | 171 | 80/06/19                  | 0223:47                  | 0224:05                 | 160             | 71                  |                 | 2               |                          | SN     |
| 744            | 171 | 80/06/19                  | 0427:08                  | 0429:07                 | 161             | 64                  |                 | 5               |                          |        |
| 745            | 171 | 80/06/19                  | 0500:18                  | 0500:19                 | 46              | 136                 | 1089            | 5               | 29, 8                    |        |
| 746            | 171 | 80/06/19                  | 1555:06                  | 1556:38                 | 205             | 103                 | 2665            | 2               | 29, 9                    |        |
| 747            | 171 | 80/06/19                  | 1831:49                  | 1839:01                 | 520             | 1317                | 63347           | 10              | 29, 10                   |        |
| 748            | 171 | 80/06/19                  | 1854:16                  | 1857:41                 | 380             | 1265                | 73333           | 5               | 29, 10                   | M      |
| 749            | 171 | 80/06/19                  | 2020:51                  | 2023:07                 | 200             | 192                 | 6723            | 5               | 29, 11                   |        |
| 750            | 171 | 80/06/19                  | 2135:00                  | 2136:35                 | 160             | 98                  | 2449            | 5               | 29, 12                   |        |
| 751            | 171 | 80/06/19                  | 2346:21                  | 2348:44                 | 240             | 76                  | 1475            | 2               | 29, 13                   |        |
| 752            | 172 | 80/06/20                  | 0320:33                  | 0321:49                 | 150             | 113                 | 2599            | 2               | 29, 14                   | EN     |
| 753            | 172 | 80/06/20                  | 0444:57                  | 0445:09                 | 60              | 109                 | 623             | 2               | 29, 15                   |        |
| 754            | 172 | 80/06/20                  | 0446:54                  | 0447:32                 | 100             | 143                 | 929             | 2               | 29, 15                   |        |
| 755            | 172 | 80/06/20                  | 0450:06                  | 0451:17                 | 140             | 165                 | 4689            | 2               | 29, 15                   |        |
| 756            | 172 | 80/06/20                  | 1254:18                  | 1255:26                 | 100             | 92                  |                 | 2               |                          |        |
| 757            | 172 | 80/06/20                  | 1832:00                  | 1832:17                 | 52              | 92                  |                 | 2               |                          |        |
| 758            | 172 | 80/06/20                  | 2009:45                  | 2010:13                 | 108             | 215                 | 2300            | 5               | 30, 1                    |        |
| 759            | 172 | 80/06/20                  | 2021:04                  | 2022:21                 | 148             | 168                 | 1595            | 5               | 30, 2                    |        |
| 760            | 172 | 80/06/20                  | 2133:12                  | 2135:08                 | 562             | 117                 | 16801           | 5               |                          |        |
| 761            | 173 | 80/06/21                  | 0045:18                  | 0058:22                 | 1523            | 435                 | 1.99E+05        | 10              | 30, 3                    | SN     |
| 762            | 173 | 80/06/21                  | 0112:40                  | 0118:40                 | 1352            | 141391              | 4.14E+06        | 15              | 30, 3                    |        |
| 763            | 173 | 80/06/21                  | 0139:02                  | 0140:12                 | 386             | 103                 | 80402           | 5               | 30, 3                    | EN, ND |
| 764            | 173 | 80/06/21                  | 0248:29                  | 0252:27                 | 392             | 309                 | 15655           | 5               | 30, 4                    |        |
| 765            | 173 | 80/06/21                  | 0447:24                  | 0448:34                 | 228             | 269                 | 11619           | 5               | 30, 5                    |        |
| 766            | 173 | 80/06/21                  | 0553:28                  | 0554:12                 | 235             | 735                 | 12716           | 10              | 30, 6                    | M, FS  |
| 767            | 173 | 80/06/21                  | 0625:54                  | 0626:23                 | 72              | 83                  |                 | 2               | 30, 8                    |        |
| 768            | 173 | 80/06/21                  | 0628:03                  | 0629:26                 | 181             | 125                 | 1775            | 5               | 30, 8                    |        |
| 769            | 173 | 80/06/21                  | 1044:17                  | 1044:30                 | 170             | 193                 | 6549            | 2               |                          | SA     |
| 4263           | 173 | 80/06/21                  | 1728:10                  | 1727:03                 | 137             | 161                 | 5014            | 2               | 143, 9                   | I      |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4264           | 173 | 80/06/21                  | 1733:05                  | 1738:32                 | 327             | 76                  |                 | 2               | 143, 9                   | I     |
| 770            | 173 | 80/06/21                  | 2030:03                  | 2030:30                 | 175             | 162                 | 3311            | 5               | 30, 9                    |       |
| 771            | 173 | 80/06/21                  | 2215:05                  | 2216:45                 | 275             | 78                  | 1933            | 2               | 30, 10                   |       |
| 772            | 173 | 80/06/21                  | 2354:00                  | 2357:10                 | 365             | 76                  | 2613            | 5               | 30, 11                   |       |
| 773            | 174 | 80/06/22                  | 0432:25                  | 0432:55                 | 45              | 88                  |                 | 2               |                          |       |
| 774            | 174 | 80/06/22                  | 1705:05                  | 1705:15                 | 40              | 81                  |                 | 2               |                          |       |
| 775            | 174 | 80/06/22                  | 1857:30                  | 1904:20                 | 900             | 150                 | 13541           | 5               | 30, 12                   |       |
| 776            | 174 | 80/06/22                  | 2013:40                  | 2014:15                 | 40              | 72                  |                 | 2               |                          |       |
| 777            | 174 | 80/06/22                  | 2129:35                  | 2133:10                 | 540             | 98                  | 16000           | 5               | 30, 13                   |       |
| 778            | 174 | 80/06/22                  | 2155:20                  | 2155:40                 | 30              | 84                  |                 | 2               |                          |       |
| 779            | 174 | 80/06/22                  | 2157:05                  | 2157:20                 | 40              | 88                  |                 | 2               |                          |       |
| 780            | 174 | 80/06/22                  | 2212:20                  | 2214:05                 | 185             | 90                  | 600             | 5               | 31, 1                    |       |
| 781            | 175 | 80/06/23                  | 0221:05                  | 0221:15                 | 80              | 153                 | 1970            | 2               | 31, 2                    |       |
| 782            | 175 | 80/06/23                  | 0614:00                  | 0615:25                 | 100             | 110                 | 894             | 5               | 31, 3                    |       |
| 783            | 175 | 80/06/23                  | 0622:05                  | 0624:35                 | 340             | 490                 | 28364           | 5               | 31, 3                    |       |
| 784            | 175 | 80/06/23                  | 0731:40                  | 0731:50                 | 20              | 99                  |                 | 2               |                          |       |
| 785            | 175 | 80/06/23                  | 0916:20                  | 0917:20                 | 410             | 81                  | 1229            | 2               | 31, 4                    |       |
| 786            | 175 | 80/06/23                  | 1054:00                  | 1055:40                 | 260             | 94                  | 2621            | 2               | 31, 5                    |       |
| 787            | 175 | 80/06/23                  | 1228:30                  | 1229:10                 | 140             | 76                  | 522             | 2               | 31, 6                    |       |
| 788            | 175 | 80/06/23                  | 1235:30                  | 1238:25                 | 870             | 136                 | 13546           | 2               | 31, 6                    |       |
| 789            | 175 | 80/06/23                  | 1516:35                  | 1517:50                 | 155             | 116                 | 2132            | 2               | 31, 7                    |       |
| 790            | 175 | 80/06/23                  | 1827:39                  | 1828:16                 | 80              | 74                  |                 | 2               |                          |       |
| 791            | 175 | 80/06/23                  | 2127:14                  | 2128:34                 | 480             | 151                 | 15984           | 5               | 31, 8                    |       |
| 792            | 175 | 80/06/23                  | 2208:48                  | 2211:06                 | 260             | 78                  | 1587            | 2               | 31, 9                    |       |
| 793            | 175 | 80/06/23                  | 2309:50                  | 2312:06                 | 340             | 519                 | 38057           | 2               | 31, 10                   |       |
| 794            | 175 | 80/06/23                  | 2333:59                  | 2335:47                 | 760             | 647                 | 1.32E+05        | 5               | 31, 10                   |       |
| 795            | 175 | 80/06/23                  | 2359:30                  | 2359:54                 | 60              | 104                 | 1996            | 2               | 31, 10                   |       |
| 796            | 176 | 80/06/24                  | 0002:39                  | 0003:04                 | 90              | 79                  | 642             | 2               |                          |       |
| 797            | 176 | 80/06/24                  | 0255:08                  | 0255:41                 | 80              | 96                  |                 | 2               |                          |       |
| 798            | 176 | 80/06/24                  | 0600:58                  | 0601:27                 | 50              | 87                  |                 | 5               |                          |       |
| 799            | 176 | 80/06/24                  | 1042:57                  | 1043:43                 | 132             | 91                  |                 | 2               |                          |       |
| 800            | 176 | 80/06/24                  | 1521:48                  | 1522:51                 | 280             | 517                 | 30789           | 5               | 31, 11                   |       |
| 801            | 176 | 80/06/24                  | 1649:48                  | 1650:13                 | 40              | 87                  |                 | 2               |                          |       |
| 802            | 176 | 80/06/24                  | 1702:36                  | 1702:56                 | 30              | 76                  |                 | 2               |                          |       |
| 803            | 176 | 80/06/24                  | 1943:23                  | 1958:20                 | 1621            | 1302                | 59079           | 10              | 31, 12                   | M,FS  |
| 804            | 176 | 80/06/24                  | 2124:52                  | 2126:51                 | 180             | 134                 | 7146            | 5               | 31, 13                   |       |
| 805            | 176 | 80/06/24                  | 2145:56                  | 2147:46                 | 150             | 72                  |                 | 2               |                          |       |
| 806            | 176 | 80/06/24                  | 2303:24                  | 2305:54                 | 240             | 70                  | 14680           | 2               | 32, 1                    |       |
| 807            | 177 | 80/06/25                  | 0047:22                  | 0048:06                 | 220             | 136                 | 2053            | 2               | 32, 2                    |       |
| 808            | 177 | 80/06/25                  | 0355:04                  | 0356:32                 | 240             | 89                  | 2176            | 2               | 32, 3                    | SA    |
| 809            | 177 | 80/06/25                  | 1236:04                  | 1238:11                 | 448             | 275                 | 22579           | 5               | 32, 4                    |       |
| 6830           | 177 | 80/06/25                  | 1521:37                  | 1521:44                 | 20              | 80                  | 297             | 2               |                          |       |
| 810            | 177 | 80/06/25                  | 1548:27                  | 1551:59                 | 665             | 2880                | 3.97E+05        | 10              | 32, 5                    |       |
| 811            | 177 | 80/06/25                  | 1710:20                  | 1710:30                 | 30              | 78                  |                 | 2               |                          |       |
| 812            | 177 | 80/06/25                  | 1723:38                  | 1724:32                 | 121             | 116                 | 43766           | 2               | 32, 6                    |       |
| 813            | 177 | 80/06/25                  | 1939:50                  | 1944:40                 | 520             | 105                 | 17104           | 5               | 32, 7                    | SN,ND |
| 814            | 177 | 80/06/25                  | 1952:50                  | 1953:05                 | 25              | 94                  |                 | 2               |                          |       |
| 815            | 177 | 80/06/25                  | 2121:50                  | 2123:00                 | 400             | 139                 | 15131           | 10              | 32, 8                    | SN    |
| 816            | 177 | 80/06/25                  | 2202:40                  | 2204:40                 | 340             | 66                  |                 | 2               | 32, 9                    | NO    |
| 817            | 177 | 80/06/25                  | 2219:00                  | 2219:10                 | 20              | 67                  |                 | 5               |                          |       |
| 818            | 177 | 80/06/25                  | 2345:30                  | 2347:40                 | 370             | 86                  | 3170            | 5               | 32, 10                   |       |
| 819            | 178 | 80/06/26                  | 0119:10                  | 0119:20                 | 60              | 97                  |                 | 5               |                          |       |
| 820            | 178 | 80/06/26                  | 0354:50                  | 0355:10                 | 40              | 73                  |                 | 2               |                          |       |
| 821            | 178 | 80/06/26                  | 0418:40                  | 0419:30                 | 60              | 118                 | 1445            | 2               |                          |       |
| 822            | 178 | 80/06/26                  | 0742:30                  | 0742:50                 | 30              | 86                  |                 | 2               |                          |       |
| 823            | 178 | 80/06/26                  | 0752:20                  | 0752:50                 | 55              | 75                  |                 | 2               |                          |       |
| 824            | 178 | 80/06/26                  | 1822:10                  | 1822:35                 | 60              | 142                 | 2176            | 5               | 32, 11                   |       |
| 825            | 178 | 80/06/26                  | 1945:20                  | 1945:40                 | 145             | 153                 | 2898            | 2               | 32, 12                   | SN    |
| 826            | 178 | 80/06/26                  | 2159:50                  | 2201:25                 | 525             | 91                  | 4535            | 5               | 32, 13                   |       |
| 827            | 178 | 80/06/26                  | 2339:35                  | 2340:25                 | 470             | 95                  | 6400            | 5               | 32, 14                   |       |
| 828            | 179 | 80/06/27                  | 0036:15                  | 0037:00                 | 150             | 148                 | 4805            | 5               | 33, 1                    |       |
| 829            | 179 | 80/06/27                  | 0111:55                  | 0113:00                 | 525             | 135                 | 6500            | 2               | 33, 2                    |       |
| 830            | 179 | 80/06/27                  | 0422:05                  | 0422:30                 | 50              | 86                  |                 | 2               | 33, 3                    |       |
| 831            | 179 | 80/06/27                  | 0429:20                  | 0430:10                 | 125             | 65                  | 1200            | 5               | 33, 3                    |       |
| 832            | 179 | 80/06/27                  | 0433:20                  | 0434:10                 | 230             | 86                  | 4715            | 5               | 33, 3                    |       |
| 833            | 179 | 80/06/27                  | 0438:50                  | 0439:50                 | 210             | 84                  | 4095            | 5               | 33, 3                    | EN    |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 834            | 179 | 80/06/27                  | 0606:05                  | 0607:15                 | 225             | 153                 | 4368            | 5               | 33, 4                    |          |
| 835            | 179 | 80/06/27                  | 1221:00                  | 1221:15                 | 45              | 69                  |                 | 2               |                          |          |
| 4276           | 179 | 80/06/27                  | 1346:23                  | 1348:17                 | 190             | 125                 | 4052            | 5               |                          | I        |
| 836            | 179 | 80/06/27                  | 1704:40                  | 1705:20                 | 70              | 118                 | 1828            | 5               | 33, 5                    |          |
| 837            | 179 | 80/06/27                  | 1710:45                  | 1710:50                 | 30              | 95                  |                 | 5               |                          |          |
| 838            | 179 | 80/06/27                  | 2032:00                  | 2032:15                 | 40              | 66                  |                 | 2               |                          |          |
| 839            | 179 | 80/06/27                  | 2032:55                  | 2033:00                 | 20              | 60                  |                 | 2               |                          |          |
| 840            | 179 | 80/06/27                  | 2331:10                  | 2332:10                 | 110             | 68                  |                 | 2               |                          |          |
| 841            | 180 | 80/06/28                  | 0244:50                  | 0246:00                 | 1020            | 1283                | 1.16E+05        | 10              | 33, 6                    |          |
| 842            | 180 | 80/06/28                  | 0745:30                  | 0749:45                 | 460             | 785                 | 48900           | 10              | 33, 7                    | EN,FS    |
| 843            | 180 | 80/06/28                  | 1327:15                  | 1328:45                 | 415             | 247                 | 13800           | 5               | 33, 8                    |          |
| 844            | 180 | 80/06/28                  | 1513:50                  | 1515:20                 | 160             | 90                  |                 | 2               |                          |          |
| 845            | 180 | 80/06/28                  | 1654:05                  | 1655:00                 | 140             | 67                  | 530             | 5               | 33, 9                    |          |
| 846            | 180 | 80/06/28                  | 1708:20                  | 1708:50                 | 55              | 83                  |                 | 2               |                          |          |
| 847            | 180 | 80/06/28                  | 1845:20                  | 1845:30                 | 50              | 83                  |                 | 2               |                          |          |
| 848            | 180 | 80/06/28                  | 1856:55                  | 1857:30                 | 160             | 107                 | 1606            | 5               | 33, 10                   |          |
| 849            | 180 | 80/06/28                  | 2259:20                  | 2259:50                 | 60              | 159                 | 3809            | 5               | 33, 11                   |          |
| 850            | 180 | 80/06/28                  | 2302:35                  | 2302:40                 | 20              | 65                  | 213             | 2               | 33, 11                   |          |
| 851            | 181 | 80/06/29                  | 0233:00                  | 0234:50                 | 1440            | 5556                | 6.30E+05        | 10              | 33, 12                   |          |
| 852            | 181 | 80/06/29                  | 0413:30                  | 0414:30                 | 105             | 101                 | 958             | 5               | 33, 13                   |          |
| 853            | 181 | 80/06/29                  | 1040:10                  | 1041:50                 | 1110            | 9348                | 5.44E+05        | 15              | 33, 13                   | M        |
| 854            | 181 | 80/06/29                  | 1702:00                  | 1703:10                 | 110             | 98                  |                 | 2               |                          |          |
| 855            | 181 | 80/06/29                  | 1802:40                  | 1803:10                 | 370             | 441                 | 25625           | 5               | 34, 1                    | SN       |
| 856            | 181 | 80/06/29                  | 1822:00                  | 1823:10                 | 825             | 3348                | 3.88E+05        | 10              | 34, 2                    |          |
| 857            | 181 | 80/06/29                  | 2021:30                  | 2021:50                 | 60              | 71                  |                 | 2               |                          |          |
| 858            | 181 | 80/06/29                  | 2026:45                  | 2027:05                 | 20              | 66                  |                 | 2               |                          |          |
| 859            | 181 | 80/06/29                  | 2130:30                  | 2130:40                 | 45              | 81                  |                 | 2               |                          |          |
| 860            | 181 | 80/06/29                  | 2143:00                  | 2146:00                 | 300             | 97                  | 1525            | 5               | 34, 3                    |          |
| 861            | 181 | 80/06/29                  | 2158:50                  | 2159:20                 | 70              | 83                  |                 | 2               |                          |          |
| 862            | 181 | 80/06/29                  | 2211:10                  | 2211:50                 | 80              | 189                 | 4974            | 5               | 34, 4                    | ES       |
| 863            | 181 | 80/06/29                  | 2322:10                  | 2322:50                 | 140             | 64                  |                 | 2               |                          |          |
| 864            | 181 | 80/06/29                  | 2334:10                  | 2335:40                 | 180             | 73                  |                 | 2               |                          |          |
| 865            | 182 | 80/06/30                  | 0108:20                  | 0108:40                 | 45              | 70                  |                 | 2               |                          |          |
| 866            | 182 | 80/06/30                  | 0419:50                  | 0420:25                 | 270             | 114                 | 3342            | 5               | 34, 5                    |          |
| 867            | 182 | 80/06/30                  | 0721:40                  | 0722:00                 | 105             | 211                 | 3235            | 5               | 34, 6                    |          |
| 868            | 182 | 80/06/30                  | 0740:50                  | 0741:50                 | 250             | 98                  | 5136            | 2               | 34, 7                    | EN       |
| 869            | 182 | 80/06/30                  | 1045:20                  | 1046:00                 | 130             | 75                  |                 | 2               |                          |          |
| 870            | 182 | 80/06/30                  | 1335:00                  | 1338:50                 | 285             | 180                 | 12896           | 5               | 34, 8                    |          |
| 871            | 182 | 80/06/30                  | 1521:10                  | 1528:00                 | 1020            | 207                 | 13443           | 5               | 34, 9                    |          |
| 872            | 182 | 80/06/30                  | 1818:20                  | 1825:00                 | 850             | 157                 | 25845           | 5               | 34, 10                   |          |
| 873            | 182 | 80/06/30                  | 1946:10                  | 1947:45                 | 260             | 181                 | 1253            | 2               | 34, 11                   |          |
| 874            | 182 | 80/06/30                  | 2132:10                  | 2134:20                 | 230             | 90                  | 3542            | 2               | 34, 12                   |          |
| 875            | 183 | 80/07/01                  | 0117:44                  | 0118:05                 | 130             | 121                 | 1463            | 2               | 34, 13                   |          |
| 876            | 183 | 80/07/01                  | 1350:52                  | 1351:30                 | 160             | 278                 | 4571            | 5               | 34, 14                   |          |
| 877            | 183 | 80/07/01                  | 1624:59                  | 1627:29                 | 831             | 27235               | 2.60E+06        | 15              | 35, 1                    | M,FS     |
| 878            | 183 | 80/07/01                  | 2253:31                  | 2253:40                 | 22              | 85                  | 285             | 15              | 35, 2                    |          |
| 879            | 185 | 80/07/03                  | 0022:22                  | 0023:02                 | 80              | 2344                | 25576           | 10              | 35, 3                    | FS       |
| 4284           | 185 | 80/07/03                  | 0253:35                  | 0254:05                 | 60              | 69                  |                 | 2               |                          | I        |
| 4285           | 186 | 80/07/04                  | 0659:15                  | 0659:45                 | 65              | 81                  |                 | 2               |                          | I        |
| 881            | 187 | 80/07/05                  | 0015:12                  | 0019:17                 | 460             | 94                  | 8058            | 5               | 35, 4                    | SN       |
| 882            | 187 | 80/07/05                  | 0042:34                  | 0042:42                 | 16              | 192                 | 811             | 5               | 35, 5                    |          |
| 883            | 187 | 80/07/05                  | 0153:14                  | 0153:38                 | 53              | 200                 | 1245            | 5               | 35, 6                    |          |
| 884            | 187 | 80/07/05                  | 0156:35                  | 0158:05                 | 750             | 87                  | 7200            | 3               | 35, 6                    |          |
| 885            | 187 | 80/07/05                  | 0735:29                  | 0738:21                 | 186             | 382                 | 29097           | 10              | 35, 7                    | M,EN     |
| 886            | 187 | 80/07/05                  | 1009:53                  | 1010:03                 | 34              | 175                 | 786             | 5               | 35, 8                    |          |
| 887            | 187 | 80/07/05                  | 1025:34                  | 1025:43                 | 36              | 82                  |                 | 2               |                          |          |
| 888            | 187 | 80/07/05                  | 1455:13                  | 1456:26                 | 149             | 85                  |                 | 2               |                          |          |
| 889            | 187 | 80/07/05                  | 1615:16                  | 1615:49                 | 70              | 99                  |                 | 2               |                          |          |
| 890            | 187 | 80/07/05                  | 1634:18                  | 1636:22                 | 140             | 70                  |                 | 2               |                          |          |
| 891            | 187 | 80/07/05                  | 2237:24                  | 2241:35                 | 3195            | 6303                | 2.64E+06        | 10              | 35, 9                    | SN,ES,FS |
| 892            | 188 | 80/07/06                  | 0418:04                  | 0419:54                 | 420             | 327                 | 16610           | 5               | 35, 10                   |          |
| 893            | 188 | 80/07/06                  | 0956:40                  | 0958:06                 | 80              | 93                  |                 | 2               |                          |          |
| 894            | 189 | 80/07/07                  | 0104:26                  | 0104:56                 | 35              | 133                 | 448             | 5               | 35, 11                   |          |
| 895            | 189 | 80/07/07                  | 0536:33                  | 0536:41                 | 13              | 112                 | 349             | 5               |                          |          |
| 896            | 189 | 80/07/07                  | 1013:23                  | 1014:09                 | 120             | 114                 | 2463            | 2               | 35, 12                   |          |
| 897            | 189 | 80/07/07                  | 1017:28                  | 1017:43                 | 20              | 280                 | 1169            | 5               | 35, 12                   |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 898            | 189 | 80/07/07                  | 1141:24                  | 1143:46                 | 180             | 237                 | 1262            | 5               | 35, 13                   |       |
| 899            | 189 | 80/07/07                  | 1146:27                  | 1151:09                 | 580             | 244                 | 26159           | 5               | 35, 13                   |       |
| 900            | 189 | 80/07/07                  | 1213:01                  | 1213:18                 | 40              | 74                  |                 | 2               |                          |       |
| 901            | 189 | 80/07/07                  | 1355:03                  | 1355:31                 | 70              | 182                 | 2163            | 5               | 35, 14                   |       |
| 902            | 189 | 80/07/07                  | 1446:07                  | 1450:03                 | 320             | 89                  | 2032            | 5               | 36, 1                    |       |
| 903            | 189 | 80/07/07                  | 1615:12                  | 1616:31                 | 160             | 71                  |                 | 2               |                          |       |
| 904            | 189 | 80/07/07                  | 1619:28                  | 1620:28                 | 120             | 70                  |                 | 2               |                          |       |
| 905            | 189 | 80/07/07                  | 1629:07                  | 1631:24                 | 240             | 75                  | 1550            | 5               | 36, 2                    |       |
| 906            | 189 | 80/07/07                  | 1751:00                  | 1753:10                 | 610             | 309                 | 18125           | 10              | 36, 3                    | SN    |
| 907            | 189 | 80/07/07                  | 2113:40                  | 2114:20                 | 280             | 725                 | 13425           | 5               | 36, 4                    | M, FS |
| 908            | 189 | 80/07/07                  | 2246:20                  | 2247:15                 | 125             | 95                  |                 | 4               |                          | ND    |
| 909            | 190 | 80/07/08                  | 0050:10                  | 0051:10                 | 225             | 193                 | 5006            | 5               | 36, 5                    |       |
| 910            | 190 | 80/07/08                  | 0057:40                  | 0057:50                 | 45              | 79                  |                 | 2               |                          |       |
| 911            | 190 | 80/07/08                  | 0239:30                  | 0239:50                 | 45              | 239                 | 1377            | 5               | 36, 6                    |       |
| 912            | 190 | 80/07/08                  | 1447:30                  | 1450:40                 | 450             | 74                  |                 | 2               |                          |       |
| 913            | 190 | 80/07/08                  | 1919:41                  | 1920:08                 | 40              | 65                  |                 | 2               |                          |       |
| 914            | 190 | 80/07/08                  | 1933:22                  | 1933:45                 | 45              | 70                  |                 | 2               |                          |       |
| 915            | 190 | 80/07/08                  | 1951:21                  | 1952:37                 | 101             | 84                  |                 | 2               |                          |       |
| 916            | 190 | 80/07/08                  | 2058:52                  | 2059:04                 | 25              | 113                 | 573             | 5               | 36, 7                    |       |
| 917            | 190 | 80/07/08                  | 2102:50                  | 2103:20                 | 96              | 90                  |                 | 5               | 36, 7                    |       |
| 918            | 190 | 80/07/08                  | 2106:05                  | 2106:17                 | 29              | 87                  |                 | 5               | 36, 7                    |       |
| 919            | 190 | 80/07/08                  | 2112:17                  | 2112:43                 | 63              | 69                  |                 | 5               |                          |       |
| 920            | 190 | 80/07/08                  | 2314:02                  | 2314:25                 | 76              | 94                  |                 | 2               |                          | ND    |
| 921            | 191 | 80/07/09                  | 0145:31                  | 0145:43                 | 64              | 427                 | 6046            | 10              | 36, 14                   |       |
| 922            | 191 | 80/07/09                  | 0214:45                  | 0215:12                 | 115             | 523                 | 59760           | 10              | 36, 8                    |       |
| 923            | 191 | 80/07/09                  | 2112:45                  | 2112:55                 | 75              | 69                  |                 | 2               |                          |       |
| 924            | 191 | 80/07/09                  | 2257:25                  | 2259:50                 | 305             | 138                 | 2288            | 5               | 36, 9                    |       |
| 925            | 192 | 80/07/10                  | 0150:15                  | 0150:20                 | 15              | 139                 | 429             | 5               | 36, 10                   |       |
| 926            | 192 | 80/07/10                  | 0227:40                  | 0228:20                 | 170             | 209                 | 1500            | 5               | 36, 11                   |       |
| 927            | 192 | 80/07/10                  | 0355:50                  | 0356:55                 | 180             | 535                 | 7593            | 5               | 36, 12                   |       |
| 928            | 192 | 80/07/10                  | 0501:35                  | 0501:45                 | 45              | 120                 | 791             | 2               | 36, 13                   |       |
| 929            | 192 | 80/07/10                  | 0943:20                  | 0943:25                 | 90              | 95                  |                 | 2               |                          |       |
| 930            | 192 | 80/07/10                  | 1017:50                  | 1018:15                 | 155             | 79                  |                 | 2               |                          |       |
| 931            | 192 | 80/07/10                  | 1259:40                  | 1300:50                 | 170             | 68                  |                 | 5               |                          |       |
| 932            | 192 | 80/07/10                  | 1439:00                  | 1441:45                 | 275             | 67                  | 1081            | 2               | 37, 1                    |       |
| 933            | 192 | 80/07/10                  | 1558:05                  | 1558:15                 | 40              | 68                  |                 | 15              |                          | EW    |
| 934            | 192 | 80/07/10                  | 1738:55                  | 1739:20                 | 35              | 114                 | 260             | 5               | 37, 2                    |       |
| 935            | 192 | 80/07/10                  | 2122:05                  | 2122:20                 | 55              | 62                  |                 | 2               |                          |       |
| 936            | 192 | 80/07/10                  | 2125:00                  | 2126:05                 | 120             | 53                  |                 | 5               |                          |       |
| 937            | 193 | 80/07/11                  | 0153:25                  | 0154:25                 | 150             | 76                  |                 | 2               |                          |       |
| 938            | 193 | 80/07/11                  | 0531:15                  | 0531:35                 | 40              | 103                 | 501             | 5               | 37, 3                    |       |
| 939            | 193 | 80/07/11                  | 0626:40                  | 0629:15                 | 200             | 70                  | 747             | 2               | 37, 4                    | SN    |
| 940            | 193 | 80/07/11                  | 0815:05                  | 0817:50                 | 315             | 68                  | 3622            | 2               | 37, 5                    |       |
| 941            | 193 | 80/07/11                  | 0823:40                  | 0824:00                 | 100             | 63                  | 900             | 2               | 37, 5                    |       |
| 4286           | 193 | 80/07/11                  | 1200:00                  | 1201:00                 | 163             | 185                 | 4382            | 3               | 144, 2                   | I     |
| 942            | 193 | 80/07/11                  | 1250:25                  | 1250:50                 | 50              | 197                 | 3038            | 5               | 143, 17                  |       |
| 943            | 193 | 80/07/11                  | 1251:25                  | 1253:00                 | 145             | 180                 | 2337            | 5               | 37, 6                    | ND    |
| 944            | 193 | 80/07/11                  | 1255:25                  | 1255:45                 | 475             | 408                 | 12051           | 5               | 37, 6                    | ND    |
| 4278           | 193 | 80/07/11                  | 1511:58                  | 1513:41                 | 640             | 319                 | 15189           | 10              | 143, 18                  | I     |
| 945            | 193 | 80/07/11                  | 1912:12                  | 1913:27                 | 140             | 87                  |                 | 5               |                          |       |
| 946            | 193 | 80/07/11                  | 1943:56                  | 1944:41                 | 130             | 224                 | 8592            | 5               | 37, 7                    |       |
| 947            | 193 | 80/07/11                  | 2223:44                  | 2226:55                 | 360             | 105                 | 6636            | 2               | 37, 8                    |       |
| 948            | 194 | 80/07/12                  | 0215:39                  | 0216:55                 | 760             | 90                  | 19151           | 2               | 37, 9                    |       |
| 949            | 194 | 80/07/12                  | 0528:44                  | 0529:49                 | 120             | 80                  |                 | 2               |                          |       |
| 950            | 194 | 80/07/12                  | 0704:27                  | 0706:03                 | 140             | 81                  |                 | 2               |                          |       |
| 951            | 194 | 80/07/12                  | 0805:40                  | 0806:07                 | 80              | 155                 | 650             | 2               | 37, 10                   |       |
| 4280           | 194 | 80/07/12                  | 0942:52                  | 0943:06                 | 80              | 228                 | 940             | 5               | 143, 20                  | I     |
| 952            | 194 | 80/07/12                  | 1110:40                  | 1117:15                 | 983             | 1406                | 2.62E+05        | 5               | 37, 11                   | M     |
| 953            | 194 | 80/07/12                  | 1254:09                  | 1255:00                 | 140             | 92                  |                 | 5               |                          | ND    |
| 4279           | 194 | 80/07/12                  | 1341:36                  | 1343:10                 | 200             | 1621                | 42967           | 5               | 143, 19                  | I     |
| 954            | 194 | 80/07/12                  | 1433:07                  | 1436:01                 | 300             | 93                  | 5952            | 5               | 37, 12                   |       |
| 955            | 194 | 80/07/12                  | 1444:10                  | 1444:56                 | 130             | 66                  |                 | 2               |                          |       |
| 956            | 194 | 80/07/12                  | 1735:25                  | 1736:15                 | 265             | 2799                | 63124           | 10              | 37, 13                   | M     |
| 957            | 194 | 80/07/12                  | 1921:05                  | 1921:10                 | 25              | 67                  |                 | 2               | 37, 14                   |       |
| 958            | 194 | 80/07/12                  | 1922:45                  | 1923:30                 | 140             | 115                 | 2604            | 5               | 37, 14                   |       |
| 959            | 194 | 80/07/12                  | 2225:50                  | 2226:05                 | 35              | 84                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 960            | 194 | 80/07/12                  | 2230:15                  | 2230:35                 | 110             | 78                  |                 | 2               |                          |       |
| 961            | 194 | 80/07/12                  | 2237:10                  | 2240:20                 | 215             | 84                  | 1043            | 2               | 38, 1                    |       |
| 962            | 194 | 80/07/12                  | 2257:50                  | 2258:15                 | 85              | 74                  |                 | 2               |                          |       |
| 963            | 194 | 80/07/12                  | 2300:40                  | 2301:30                 | 60              | 71                  |                 | 2               |                          |       |
| 964            | 195 | 80/07/13                  | 0027:30                  | 0027:40                 | 35              | 70                  |                 | 2               |                          | ND    |
| 965            | 195 | 80/07/13                  | 0028:50                  | 0029:05                 | 40              | 90                  |                 | 2               |                          |       |
| 966            | 195 | 80/07/13                  | 0351:20                  | 0352:15                 | 160             | 72                  |                 | 2               |                          |       |
| 967            | 195 | 80/07/13                  | 0356:05                  | 0356:10                 | 45              | 61                  |                 | 2               |                          |       |
| 968            | 195 | 80/07/13                  | 0626:05                  | 0629:25                 | 200             | 71                  | 924             | 5               | 38, 2                    |       |
| 969            | 195 | 80/07/13                  | 1116:10                  | 1117:00                 | 95              | 64                  |                 | 10              |                          |       |
| 970            | 195 | 80/07/13                  | 1430:25                  | 1433:15                 | 555             | 140                 | 15180           | 5               | 38, 3                    |       |
| 971            | 195 | 80/07/13                  | 1604:00                  | 1604:55                 | 155             | 91                  |                 | 2               |                          |       |
| 972            | 195 | 80/07/13                  | 1759:50                  | 1801:00                 | 295             | 278                 | 12666           | 2               | 38, 4                    |       |
| 973            | 195 | 80/07/13                  | 1915:50                  | 1918:10                 | 625             | 841                 | 42024           | 5               | 38, 5                    | M     |
| 974            | 195 | 80/07/13                  | 1929:55                  | 1930:35                 | 155             | 137                 | 1689            | 2               | 38, 5                    |       |
| 975            | 196 | 80/07/14                  | 0038:35                  | 0039:00                 | 35              | 73                  |                 | 2               |                          |       |
| 976            | 196 | 80/07/14                  | 0042:20                  | 0042:35                 | 85              | 93                  |                 | 5               |                          |       |
| 977            | 196 | 80/07/14                  | 0134:45                  | 0134:55                 | 15              | 99                  |                 | 2               |                          |       |
| 978            | 196 | 80/07/14                  | 0149:15                  | 0149:35                 | 205             | 197                 | 2460            | 5               | 38, 6                    |       |
| 979            | 196 | 80/07/14                  | 0317:33                  | 0317:39                 | 20              | 86                  |                 | 2               |                          |       |
| 980            | 196 | 80/07/14                  | 0355:44                  | 0357:06                 | 150             | 172                 | 3657            | 5               | 38, 7                    |       |
| 981            | 196 | 80/07/14                  | 0503:36                  | 0503:46                 | 20              | 71                  |                 | 2               |                          |       |
| 982            | 196 | 80/07/14                  | 0646:24                  | 0647:14                 | 110             | 106                 | 999             | 5               | 38, 8                    |       |
| 983            | 196 | 80/07/14                  | 0822:04                  | 0825:55                 | 440             | 5332                | 4.15E+05        | 15              | 38, 9                    | M     |
| 984            | 196 | 80/07/14                  | 1015:08                  | 1016:46                 | 220             | 186                 | 692             | 5               | 38, 10                   |       |
| 985            | 196 | 80/07/14                  | 1246:04                  | 1248:03                 | 220             | 79                  | 2687            | 5               | 38, 11                   |       |
| 986            | 196 | 80/07/14                  | 1326:35                  | 1330:42                 | 440             | 78                  | 3804            | 2               | 38, 12                   |       |
| 987            | 196 | 80/07/14                  | 1424:53                  | 1430:15                 | 840             | 110                 | 21781           | 5               | 38, 13                   |       |
| 988            | 197 | 80/07/15                  | 0129:30                  | 0130:15                 | 105             | 292                 | 4157            | 5               | 38, 14                   |       |
| 989            | 197 | 80/07/15                  | 0845:00                  | 0845:25                 | 115             | 307                 | 4441            | 5               | 39, 1                    |       |
| 990            | 197 | 80/07/15                  | 0937:30                  | 0937:40                 | 100             | 66                  |                 | 2               |                          |       |
| 991            | 197 | 80/07/15                  | 0953:00                  | 0953:30                 | 140             | 320                 | 5062            | 5               | 39, 2                    |       |
| 992            | 197 | 80/07/15                  | 1423:02                  | 1426:57                 | 440             | 85                  | 4255            | 5               | 39, 3                    |       |
| 993            | 197 | 80/07/15                  | 2247:05                  | 2247:50                 | 190             | 166                 | 5711            | 5               | 39, 4                    |       |
| 994            | 198 | 80/07/16                  | 0633:50                  | 0634:25                 | 115             | 57                  |                 | 2               |                          |       |
| 995            | 198 | 80/07/16                  | 0636:30                  | 0637:35                 | 170             | 106                 | 3545            | 2               | 39, 5                    |       |
| 996            | 198 | 80/07/16                  | 1422:32                  | 1423:25                 | 80              | 103                 | 1060            | 2               | 39, 6                    |       |
| 997            | 198 | 80/07/16                  | 1511:00                  | 1511:17                 | 140             | 454                 | 12452           | 5               | 39, 7                    | SA    |
| 998            | 198 | 80/07/16                  | 1733:06                  | 1733:17                 | 50              | 117                 | 1389            | 2               | 39, 8                    |       |
| 999            | 198 | 80/07/16                  | 1750:46                  | 1751:04                 | 99              | 71                  |                 | 2               |                          |       |
| 1000           | 198 | 80/07/16                  | 1923:46                  | 1924:10                 | 35              | 83                  |                 | 2               |                          |       |
| 1001           | 199 | 80/07/17                  | 0141:36                  | 0142:28                 | 100             | 70                  |                 | 2               |                          |       |
| 1002           | 199 | 80/07/17                  | 0610:51                  | 0615:09                 | 380             | 110                 | 8493            | 5               | 39, 9                    |       |
| 1003           | 199 | 80/07/17                  | 0659:32                  | 0700:16                 | 102             | 141                 | 2408            | 2               | 39, 10                   |       |
| 1004           | 199 | 80/07/17                  | 0923:25                  | 0924:56                 | 182             | 85                  |                 | 5               |                          | AX    |
| 1005           | 199 | 80/07/17                  | 1104:33                  | 1105:52                 | 150             | 86                  |                 | 5               |                          | AX    |
| 1006           | 199 | 80/07/17                  | 1330:55                  | 1333:26                 | 267             | 74                  | 2394            | 2               | 39, 11                   |       |
| 4287           | 200 | 80/07/18                  | 0020:25                  | 0021:40                 | 75              | 76                  |                 | 2               |                          | I     |
| 4288           | 200 | 80/07/18                  | 0203:30                  | 0204:15                 | 70              | 76                  |                 | 2               |                          | I     |
| 1007           | 200 | 80/07/18                  | 0454:38                  | 0455:20                 | 110             | 87                  |                 | 5               |                          |       |
| 1008           | 200 | 80/07/18                  | 0612:49                  | 0613:05                 | 40              | 67                  |                 | 2               |                          |       |
| 1009           | 200 | 80/07/18                  | 0655:08                  | 0655:30                 | 60              | 211                 | 2443            | 5               | 39, 12                   |       |
| 1010           | 200 | 80/07/18                  | 0919:52                  | 0922:49                 | 250             | 94                  | 3328            | 10              | 39, 13                   |       |
| 1011           | 201 | 80/07/19                  | 0007:20                  | 0007:40                 | 120             | 239                 | 3120            | 5               | 39, 14                   |       |
| 1012           | 201 | 80/07/19                  | 0027:15                  | 0035:55                 | 775             | 101                 | 19000           | 5               | 39, 14                   | ES    |
| 1013           | 201 | 80/07/19                  | 0655:10                  | 0657:10                 | 255             | 75                  | 390             | 2               | 40, 1                    |       |
| 1014           | 201 | 80/07/19                  | 0754:20                  | 0755:20                 | 125             | 70                  |                 | 2               |                          |       |
| 4289           | 202 | 80/07/20                  | 0029:45                  | 0031:00                 | 139             | 119                 | 1995            | 2               | 144, 3                   | I     |
| 1015           | 202 | 80/07/20                  | 0817:00                  | 0818:20                 | 130             | 356                 | 11694           | 5               | 40, 2                    |       |
| 1016           | 202 | 80/07/20                  | 0914:45                  | 0915:58                 | 260             | 94                  | 4985            | 5               | 40, 3                    |       |
| 1017           | 202 | 80/07/20                  | 1229:41                  | 1233:58                 | 500             | 72                  | 3797            | 5               | 40, 4                    |       |
| 1018           | 202 | 80/07/20                  | 1922:43                  | 1925:08                 | 417             | 2624                | 1.04E+05        | 10              | 40, 5                    |       |
| 1019           | 202 | 80/07/20                  | 2237:20                  | 2237:36                 | 29              | 162                 | 819             | 5               | 40, 6                    |       |
| 1020           | 203 | 80/07/21                  | 0032:34                  | 0032:47                 | 36              | 74                  |                 | 2               |                          |       |
| 1021           | 203 | 80/07/21                  | 0136:10                  | 0136:19                 | 28              | 75                  |                 | 2               |                          |       |
| 1022           | 203 | 80/07/21                  | 0253:43                  | 0256:13                 | 612             | 12443               | 7.99E+05        | 15              | 40, 7                    | M     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 1023           | 203 | 80/07/21                  | 0946:13                  | 0946:21                 | 57              | 62                  |                 | 2               |                          |        |
| 4290           | 203 | 80/07/21                  | 1413:15                  | 1414:20                 | 135             | 84                  |                 | 2               |                          | I      |
| 4291           | 203 | 80/07/21                  | 1422:50                  | 1423:30                 | 65              | 67                  |                 | 2               |                          | I      |
| 1024           | 203 | 80/07/21                  | 1919:40                  | 1920:36                 | 340             | 160                 | 10404           | 5               | 40, 9                    |        |
| 1025           | 203 | 80/07/21                  | 2213:56                  | 2214:28                 | 90              | 86                  |                 | 2               |                          |        |
| 1026           | 205 | 80/07/23                  | 0008:50                  | 0010:50                 | 220             | 83                  | 1957            | 2               | 40, 10                   |        |
| 1027           | 205 | 80/07/23                  | 0109:30                  | 0112:05                 | 2025            | 319                 | 7.11E+06        | 10              | 40, 10                   | M, SN  |
| 1028           | 205 | 80/07/23                  | 0303:20                  | 0304:25                 | 120             | 200                 | 4720            | 5               | 40, 12                   |        |
| 1029           | 205 | 80/07/23                  | 0620:10                  | 0621:50                 | 135             | 72                  |                 | 2               |                          |        |
| 1030           | 205 | 80/07/23                  | 0741:45                  | 0742:20                 | 120             | 71                  |                 | 5               |                          |        |
| 1031           | 205 | 80/07/23                  | 1010:15                  | 1010:45                 | 55              | 247                 | 3558            | 5               | 40, 13                   |        |
| 1032           | 205 | 80/07/23                  | 1635:40                  | 1635:55                 | 40              | 76                  |                 | 2               |                          |        |
| 1033           | 205 | 80/07/23                  | 2156:45                  | 2157:45                 | 105             | 110                 | 1907            | 5               | 40, 14                   |        |
| 1034           | 205 | 80/07/23                  | 2210:35                  | 2212:00                 | 265             | 74                  | 1061            | 2               | 40, 14                   |        |
| 1035           | 206 | 80/07/24                  | 0001:05                  | 0001:20                 | 185             | 70                  |                 | 2               |                          |        |
| 1036           | 206 | 80/07/24                  | 0303:10                  | 0303:35                 | 40              | 84                  |                 | 2               |                          |        |
| 1037           | 206 | 80/07/24                  | 0648:30                  | 0648:50                 | 35              | 83                  |                 | 2               |                          |        |
| 1038           | 206 | 80/07/24                  | 0908:30                  | 0909:05                 | 60              | 228                 | 2216            | 5               | 41, 1                    |        |
| 1039           | 206 | 80/07/24                  | 1138:55                  | 1139:10                 | 235             | 93                  | 1840            | 2               | 41, 2                    |        |
| 1040           | 207 | 80/07/25                  | 1538:25                  | 1541:10                 | 360             | 90                  | 3830            | 2               | 41, 3                    |        |
| 1041           | 207 | 80/07/25                  | 2057:31                  | 2058:10                 | 126             | 91                  |                 | 2               |                          | ES     |
| 1042           | 208 | 80/07/26                  | 0116:18                  | 0119:42                 | 433             | 189                 | 57065           | 5               | 41, 4                    | ND     |
| 1043           | 208 | 80/07/26                  | 0152:29                  | 0152:45                 | 31              | 123                 | 639             | 2               | 41, 5                    |        |
| 1044           | 208 | 80/07/26                  | 1136:08                  | 1136:40                 | 95              | 65                  |                 | 2               |                          |        |
| 1045           | 208 | 80/07/26                  | 1306:33                  | 1307:25                 | 178             | 94                  |                 | 2               |                          |        |
| 1046           | 208 | 80/07/26                  | 1731:17                  | 1732:04                 | 146             | 88                  |                 | 2               |                          |        |
| 1047           | 208 | 80/07/26                  | 2328:16                  | 2328:50                 | 43              | 89                  |                 | 5               |                          |        |
| 1048           | 208 | 80/07/26                  | 2351:22                  | 2352:19                 | 90              | 78                  |                 | 5               |                          |        |
| 1049           | 209 | 80/07/27                  | 0641:07                  | 0642:12                 | 90              | 75                  |                 | 2               |                          |        |
| 1050           | 209 | 80/07/27                  | 0959:35                  | 1000:41                 | 130             | 59                  |                 | 2               |                          |        |
| 1051           | 209 | 80/07/27                  | 1045:15                  | 1045:52                 | 100             | 68                  |                 | 2               |                          | ES     |
| 1052           | 209 | 80/07/27                  | 1222:24                  | 1222:54                 | 50              | 288                 | 3462            | 10              | 41, 6                    |        |
| 1053           | 209 | 80/07/27                  | 2041:35                  | 2042:05                 | 115             | 62                  |                 | 2               |                          |        |
| 1054           | 210 | 80/07/28                  | 0437:40                  | 0444:40                 | 745             | 70                  | 2261            | 2               | 41, 7                    |        |
| 4332           | 219 | 80/08/06                  | 0002:55                  | 0003:45                 | 145             | 63                  |                 | 2               |                          | I      |
| 4335           | 219 | 80/08/06                  | 0549:30                  | 0552:15                 | 482             | 89                  |                 | 2               | 145, 4                   | I, ND  |
| 1055           | 220 | 80/08/07                  | 0743:05                  | 0746:00                 | 390             | 67                  | 1376            | 2               | 41, 8                    |        |
| 1056           | 220 | 80/08/07                  | 1116:25                  | 1118:05                 | 120             | 99                  |                 | 2               |                          | EN, ND |
| 1057           | 222 | 80/08/09                  | 2014:23                  | 2014:55                 | 340             | 121                 | 4719            | 2               | 41, 9                    |        |
| 1058           | 222 | 80/08/09                  | 2332:25                  | 2332:46                 | 50              | 66                  |                 | 2               | 41, 10                   |        |
| 1059           | 222 | 80/08/09                  | 2338:03                  | 2342:22                 | 450             | 74                  | 2067            | 2               | 41, 10                   |        |
| 1060           | 222 | 80/08/09                  | 2348:53                  | 2349:10                 | 30              | 114                 | 668             | 2               | 41, 10                   |        |
| 1061           | 223 | 80/08/10                  | 2125:42                  | 2126:24                 | 239             | 119                 | 6348            | 10              | 41, 11                   |        |
| 1062           | 223 | 80/08/10                  | 2201:54                  | 2203:14                 | 166             | 72                  |                 | 2               |                          |        |
| 1063           | 223 | 80/08/10                  | 2342:02                  | 2346:22                 | 345             | 96                  | 4325            | 5               | 41, 12                   |        |
| 1064           | 224 | 80/08/11                  | 0051:20                  | 0102:27                 | 667             | 772                 | 77856           | 15              | 41, 13                   |        |
| 1065           | 224 | 80/08/11                  | 1034:16                  | 1034:55                 | 223             | 202                 | 3326            | 5               | 42, 1                    |        |
| 1066           | 224 | 80/08/11                  | 1049:40                  | 1052:20                 | 749             | 300                 | 15999           | 5               | 42, 1                    |        |
| 1067           | 224 | 80/08/11                  | 2119:00                  | 2121:24                 | 280             | 155                 | 12336           | 5               | 42, 2                    |        |
| 1068           | 225 | 80/08/12                  | 0604:01                  | 0605:17                 | 240             | 128                 | 3807            | 5               | 42, 3                    |        |
| 1069           | 225 | 80/08/12                  | 2136:18                  | 2137:49                 | 150             | 65                  |                 | 2               |                          |        |
| 1070           | 226 | 80/08/13                  | 0112:02                  | 0113:14                 | 120             | 60                  |                 | 2               |                          |        |
| 1071           | 226 | 80/08/13                  | 1314:52                  | 1315:08                 | 400             | 96                  | 8495            | 2               | 42, 4                    | ES     |
| 1072           | 226 | 80/08/13                  | 1658:00                  | 1659:10                 | 140             | 69                  |                 | 5               |                          |        |
| 1073           | 226 | 80/08/13                  | 2121:25                  | 2122:55                 | 110             | 56                  |                 | 2               |                          |        |
| 1074           | 227 | 80/08/14                  | 1217:00                  | 1217:35                 | 55              | 68                  |                 | 2               |                          |        |
| 4364           | 227 | 80/08/14                  | 2311:40                  | 2312:10                 | 67              | 204                 | 2154            | 4               | 145, 16                  | I      |
| 1075           | 228 | 80/08/15                  | 0117:53                  | 0118:13                 | 65              | 92                  |                 | 2               |                          | ND     |
| 1076           | 228 | 80/08/15                  | 0216:11                  | 0218:07                 | 150             | 129                 | 2737            | 15              | 42, 5                    |        |
| 1077           | 228 | 80/08/15                  | 1820:09                  | 1821:43                 | 190             | 81                  |                 | 5               |                          | NS     |
| 1078           | 228 | 80/08/15                  | 2144:36                  | 2145:49                 | 130             | 63                  |                 | 2               |                          |        |
| 1079           | 229 | 80/08/16                  | 1229:24                  | 1229:35                 | 50              | 71                  |                 | 2               |                          |        |
| 1080           | 229 | 80/08/16                  | 1352:01                  | 1353:47                 | 160             | 58                  |                 | 2               |                          |        |
| 1081           | 229 | 80/08/16                  | 1512:40                  | 1513:40                 | 150             | 57                  |                 | 2               |                          |        |
| 1082           | 229 | 80/08/16                  | 1804:45                  | 1806:10                 | 110             | 66                  |                 | 2               |                          |        |
| 1083           | 229 | 80/08/16                  | 1932:00                  | 1933:45                 | 275             | 463                 | 29500           | 5               | 42, 6                    |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1084           | 231 | 80/08/18                  | 0153:40                  | 0154:10                 | 60              | 73                  |                 | 2               |                          |       |
| 1085           | 231 | 80/08/18                  | 1044:52                  | 1045:37                 | 114             | 176                 | 3932            | 2               | 42, 7                    |       |
| 1086           | 231 | 80/08/18                  | 2006:40                  | 2007:20                 | 85              | 60                  |                 | 2               |                          |       |
| 1087           | 232 | 80/08/19                  | 0220:10                  | 0220:20                 | 50              | 64                  |                 | 2               |                          |       |
| 1088           | 232 | 80/08/19                  | 1523:05                  | 1525:25                 | 200             | 71                  | 924             | 2               | 42, 8                    |       |
| 1089           | 232 | 80/08/19                  | 1527:15                  | 1528:05                 | 180             | 67                  | 659             | 2               | 42, 8                    |       |
| 1090           | 234 | 80/08/21                  | 1312:05                  | 1312:30                 | 95              | 220                 | 2768            | 5               | 42, 9                    |       |
| 1091           | 234 | 80/08/21                  | 1331:06                  | 1331:09                 | 10              | 80                  | 240             | 2               |                          |       |
| 1092           | 234 | 80/08/21                  | 1342:00                  | 1343:40                 | 710             | 90                  |                 | 2               | 42, 10                   | ND    |
| 1093           | 234 | 80/08/21                  | 1650:05                  | 1650:20                 | 120             | 75                  | 630             | 2               |                          |       |
| 1094           | 234 | 80/08/21                  | 1743:00                  | 1743:25                 | 45              | 90                  | 225             | 2               |                          |       |
| 1095           | 234 | 80/08/21                  | 1750:58                  | 1751:08                 | 30              | 284                 | 1282            | 5               | 42, 11                   |       |
| 1096           | 235 | 80/08/22                  | 0031:12                  | 0031:34                 | 230             | 79                  | 1033            | 5               | 42, 12                   |       |
| 1097           | 235 | 80/08/22                  | 0227:07                  | 0227:30                 | 110             | 77                  |                 | 2               |                          |       |
| 1098           | 235 | 80/08/22                  | 0241:09                  | 0241:44                 | 70              | 74                  |                 | 2               |                          |       |
| 1099           | 235 | 80/08/22                  | 0344:11                  | 0345:29                 | 80              | 80                  |                 | 2               |                          |       |
| 1100           | 235 | 80/08/22                  | 0347:02                  | 0347:42                 | 70              | 72                  |                 | 2               |                          |       |
| 1101           | 235 | 80/08/22                  | 0514:58                  | 0517:03                 | 926             | 310                 | 39322           | 2               | 42, 13                   |       |
| 1102           | 235 | 80/08/22                  | 0828:06                  | 0829:12                 | 300             | 1367                | 75906           | 10              | 42, 14                   |       |
| 1103           | 235 | 80/08/22                  | 1126:15                  | 1127:58                 | 160             | 289                 | 8446            | 5               | 42, 15                   |       |
| 4377           | 235 | 80/08/22                  | 1308:20                  | 1309:35                 | 109             | 61                  |                 | 2               |                          | I     |
| 1104           | 235 | 80/08/22                  | 1652:47                  | 1654:20                 | 360             | 53                  | 2949            | 2               |                          |       |
| 1105           | 235 | 80/08/22                  | 1948:40                  | 1949:06                 | 36              | 66                  |                 | 2               |                          |       |
| 1106           | 235 | 80/08/22                  | 2121:54                  | 2125:28                 | 834             | 834                 | 2091            | 10              | 43, 1                    | M     |
| 1107           | 236 | 80/08/23                  | 0636:47                  | 0636:56                 | 36              | 95                  |                 | 2               |                          |       |
| 1108           | 236 | 80/08/23                  | 1156:18                  | 1156:53                 | 459             | 124                 | 7127            | 5               | 43, 2                    |       |
| 1109           | 236 | 80/08/23                  | 1204:34                  | 1205:10                 | 391             | 227                 | 5620            | 2               | 43, 2                    |       |
| 1110           | 236 | 80/08/23                  | 1449:56                  | 1450:49                 | 118             | 149                 | 2621            | 5               | 43, 3                    |       |
| 1111           | 236 | 80/08/23                  | 1804:20                  | 1806:09                 | 150             | 81                  |                 | 2               |                          |       |
| 1112           | 236 | 80/08/23                  | 1816:31                  | 1817:26                 | 350             | 84                  |                 | 2               |                          | ES    |
| 1113           | 236 | 80/08/23                  | 2126:39                  | 2128:33                 | 480             | 903                 | 73859           | 5               | 43, 4                    |       |
| 1114           | 237 | 80/08/24                  | 0022:52                  | 0024:41                 | 190             | 98                  |                 | 2               |                          |       |
| 1115           | 237 | 80/08/24                  | 0223:53                  | 0224:42                 | 70              | 72                  |                 | 2               |                          |       |
| 1116           | 237 | 80/08/24                  | 0525:10                  | 0529:13                 | 660             | 194                 | 25392           | 2               | 43, 5                    |       |
| 1117           | 237 | 80/08/24                  | 0823:56                  | 0827:55                 | 540             | 104                 | 9361            | 2               | 43, 6                    |       |
| 1118           | 237 | 80/08/24                  | 1323:37                  | 1323:59                 | 40              | 94                  |                 | 2               |                          |       |
| 1119           | 237 | 80/08/24                  | 1604:29                  | 1609:22                 | 1065            | 312                 | 44451           | 5               | 43, 7                    |       |
| 1120           | 237 | 80/08/24                  | 1642:23                  | 1645:09                 | 340             | 74                  | 3633            | 2               | 43, 8                    | AX    |
| 1121           | 237 | 80/08/24                  | 1810:38                  | 1811:02                 | 40              | 74                  |                 | 2               |                          |       |
| 1122           | 237 | 80/08/24                  | 1944:17                  | 1945:39                 | 700             | 608                 | 74210           | 5               | 43, 9                    | M, ES |
| 1123           | 237 | 80/08/24                  | 2238:55                  | 2239:11                 | 30              | 62                  |                 | 2               |                          |       |
| 1124           | 238 | 80/08/25                  | 0008:40                  | 0008:49                 | 50              | 79                  |                 | 2               |                          |       |
| 1125           | 238 | 80/08/25                  | 0021:40                  | 0022:22                 | 130             | 232                 | 3524            | 5               | 43, 10                   | FS    |
| 1126           | 238 | 80/08/25                  | 0217:11                  | 0223:52                 | 600             | 100                 | 6906            | 2               | 43, 11                   |       |
| 1127           | 238 | 80/08/25                  | 0339:30                  | 0340:05                 | 120             | 69                  |                 | 2               |                          |       |
| 1128           | 238 | 80/08/25                  | 0400:18                  | 0401:39                 | 110             | 342                 | 11723           | 5               | 43, 12                   |       |
| 1129           | 238 | 80/08/25                  | 0632:23                  | 0635:46                 | 360             | 74                  |                 | 2               |                          |       |
| 1130           | 238 | 80/08/25                  | 1017:30                  | 1019:49                 | 220             | 301                 | 11678           | 5               | 43, 13                   |       |
| 1131           | 238 | 80/08/25                  | 1253:38                  | 1254:25                 | 78              | 247                 | 4320            | 5               | 43, 14                   |       |
| 1132           | 238 | 80/08/25                  | 1256:17                  | 1302:15                 | 840             | 161                 | 32706           | 2               | 43, 14                   |       |
| 1133           | 238 | 80/08/25                  | 1457:00                  | 1457:40                 | 220             | 87                  | 3902            | 2               | 43, 15                   |       |
| 1134           | 238 | 80/08/25                  | 1623:20                  | 1623:47                 | 80              | 77                  |                 | 2               |                          |       |
| 1135           | 238 | 80/08/25                  | 1753:00                  | 1753:40                 | 360             | 125                 | 4105            | 2               | 43, 16                   |       |
| 1136           | 238 | 80/08/25                  | 1915:35                  | 1915:55                 | 45              | 61                  |                 | 2               |                          |       |
| 1137           | 238 | 80/08/25                  | 2057:10                  | 2057:55                 | 55              | 85                  |                 | 2               |                          |       |
| 1138           | 238 | 80/08/25                  | 2059:05                  | 2059:55                 | 130             | 106                 | 1156            | 2               | 44, 1                    |       |
| 1979           | 239 | 80/08/26                  | 0353:45                  | 0354:10                 | 166             | 148                 | 1884            | 4               | 146, 15                  | I     |
| 4418           | 239 | 80/08/26                  | 0406:10                  | 0407:25                 | 103             | 168                 | 1764            | 2               | 146, 15                  | I     |
| 1139           | 239 | 80/08/26                  | 1026:55                  | 1028:15                 | 135             | 85                  |                 | 2               |                          |       |
| 1140           | 239 | 80/08/26                  | 1029:30                  | 1030:10                 | 104             | 74                  |                 | 2               |                          |       |
| 1141           | 239 | 80/08/26                  | 1142:31                  | 1142:32                 | 1               | 1245                | 591             | 10              | 44, 2                    | M, AX |
| 1142           | 240 | 80/08/27                  | 0039:00                  | 0039:30                 | 30              | 78                  |                 | 2               |                          |       |
| 1143           | 240 | 80/08/27                  | 0226:10                  | 0226:15                 | 15              | 79                  |                 | 2               |                          |       |
| 1144           | 240 | 80/08/27                  | 0508:55                  | 0509:05                 | 20              | 63                  |                 | 2               |                          |       |
| 1145           | 240 | 80/08/27                  | 0658:30                  | 0658:35                 | 40              | 84                  |                 | 2               |                          |       |
| 1146           | 240 | 80/08/27                  | 0803:40                  | 0804:20                 | 60              | 134                 | 1020            | 2               | 44, 4                    | M     |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HH:MM:SS | PEAK<br>TIME<br>HH:MM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS      |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|------------|
| 1147           | 240 | 80/08/27                  | 0818:45                   | 0819:12                  | 90              | 518                 | 4500            | 5               | 44, 5                    | M          |
| 1148           | 240 | 80/08/27                  | 1021:50                   | 1022:10                  | 90              | 60                  |                 | 2               |                          |            |
| 1149           | 240 | 80/08/27                  | 1136:05                   | 1137:25                  | 270             | 294                 | 12150           | 5               | 44, 6                    | M          |
| 1150           | 240 | 80/08/27                  | 1226:20                   | 1226:45                  | 60              | 60                  |                 | 2               |                          | SN, EN, AX |
| 1151           | 240 | 80/08/27                  | 1322:20                   | 1327:15                  | 1025            | 165                 | 35875           | 2               | 44, 9                    | M          |
| 1152           | 240 | 80/08/27                  | 1610:50                   | 1612:20                  | 150             | 222                 | 5100            | 5               | 44, 11                   |            |
| 1153           | 240 | 80/08/27                  | 1738:40                   | 1738:55                  | 40              | 62                  |                 | 2               |                          |            |
| 1154           | 240 | 80/08/27                  | 2243:40                   | 2244:15                  | 90              | 84                  |                 | 2               |                          |            |
| 1155           | 241 | 80/08/28                  | 0028:25                   | 0029:20                  | 120             | 136                 | 2040            | 2               | 44, 12                   |            |
| 1156           | 241 | 80/08/28                  | 0356:55                   | 0357:10                  | 60              | 70                  |                 | 2               |                          |            |
| 1157           | 241 | 80/08/28                  | 1157:45                   | 1158:05                  | 60              | 114                 | 780             | 2               | 44, 13                   | M          |
| 1158           | 241 | 80/08/28                  | 1248:05                   | 1249:30                  | 250             | 149                 | 6750            | 10              | 44, 14                   | M          |
| 1159           | 241 | 80/08/28                  | 1556:05                   | 1556:30                  | 80              | 73                  |                 | 2               |                          |            |
| 1160           | 241 | 80/08/28                  | 1726:30                   | 1726:50                  | 65              | 205                 | 1820            | 5               | 44, 16                   |            |
| 1161           | 242 | 80/08/29                  | 0803:10                   | 0803:40                  | 60              | 68                  |                 | 2               |                          |            |
| 1162           | 242 | 80/08/29                  | 0931:50                   | 0932:05                  | 60              | 95                  |                 | 2               |                          |            |
| 1163           | 242 | 80/08/29                  | 1238:20                   | 1238:50                  | 80              | 69                  |                 | 2               |                          |            |
| 1164           | 243 | 80/08/30                  | 0140:10                   | 0140:20                  | 35              | 81                  |                 | 2               |                          |            |
| 1165           | 243 | 80/08/30                  | 0301:15                   | 0301:25                  | 30              | 72                  |                 | 2               |                          |            |
| 1166           | 243 | 80/08/30                  | 0304:20                   | 0305:05                  | 80              | 470                 |                 | 5               | 45, 1                    | M          |
| 1167           | 243 | 80/08/30                  | 0529:30                   | 0529:45                  | 60              | 104                 | 750             | 2               | 45, 3                    | M          |
| 1168           | 243 | 80/08/30                  | 0623:05                   | 0624:45                  | 190             | 97                  |                 | 2               |                          |            |
| 1169           | 243 | 80/08/30                  | 0647:20                   | 0647:50                  | 100             | 197                 | 3550            | 5               | 45, 4                    | M          |
| 4419           | 243 | 80/08/30                  | 0803:10                   | 0809:15                  | 520             | 122                 | 6702            | 2               | 146, 16                  | I          |
| 1170           | 243 | 80/08/30                  | 0950:55                   | 0951:10                  | 60              | 66                  |                 | 5               |                          |            |
| 1171           | 243 | 80/08/30                  | 1236:50                   | 1243:00                  | 620             | 208                 | 14260           | 2               | 45, 6                    | M          |
| 1172           | 243 | 80/08/30                  | 1922:30                   | 1922:49                  | 60              | 99                  |                 | 2               |                          |            |
| 1173           | 244 | 80/08/31                  | 0012:10                   | 0012:50                  | 220             | 174                 | 6160            | 2               | 45, 8                    |            |
| 1174           | 244 | 80/08/31                  | 0316:05                   | 0316:30                  | 65              | 85                  |                 | 2               |                          |            |
| 1175           | 244 | 80/08/31                  | 0840:55                   | 0841:15                  | 60              | 94                  |                 | 2               |                          |            |
| 1176           | 244 | 80/08/31                  | 0923:20                   | 0923:50                  | 90              | 1255                | 14220           | 10              | 45, 9                    | FS         |
| 1177           | 244 | 80/08/31                  | 0925:00                   | 0925:35                  | 205             | 1115                | 27675           | 10              | 45, 9                    | FS         |
| 1178           | 244 | 80/08/31                  | 0959:05                   | 1000:20                  | 90              | 94                  |                 | 2               |                          |            |
| 1179           | 244 | 80/08/31                  | 1059:30                   | 1100:25                  | 180             | 51                  |                 | 2               |                          |            |
| 1180           | 244 | 80/08/31                  | 1237:40                   | 1239:40                  | 295             | 99                  | 5458            | 10              | 45, 11                   |            |
| 1181           | 244 | 80/08/31                  | 1247:55                   | 1248:50                  | 120             | 7360                | 91200           | 15              | 45, 11                   |            |
| 1182           | 244 | 80/08/31                  | 1251:00                   | 1252:15                  | 170             | 3673                | 1.24E+05        | 15              | 45, 11                   |            |
| 1183           | 244 | 80/08/31                  | 1302:35                   | 1302:55                  | 60              | 65                  |                 | 2               |                          |            |
| 1184           | 244 | 80/08/31                  | 1324:45                   | 1329:30                  | 300             | 1791                | 1.89E+05        | 5               | 45, 12                   | M          |
| 1185           | 244 | 80/08/31                  | 1730:00                   | 1730:29                  | 60              | 64                  |                 | 2               |                          |            |
| 1186           | 244 | 80/08/31                  | 1749:10                   | 1749:18                  | 14              | 205                 | 849             | 5               | 45, 13                   | M          |
| 1187           | 245 | 80/09/01                  | 0001:31                   | 0001:51                  | 37              | 164                 | 1446            | 5               | 45, 14                   |            |
| 1188           | 245 | 80/09/01                  | 0345:20                   | 0345:35                  | 25              | 70                  |                 | 2               |                          |            |
| 1189           | 245 | 80/09/01                  | 0521:00                   | 0523:45                  | 380             | 161                 | 12165           | 2               | 45, 16                   |            |
| 1190           | 245 | 80/09/01                  | 0639:44                   | 0640:16                  | 48              | 71                  |                 | 2               |                          |            |
| 1191           | 245 | 80/09/01                  | 0701:31                   | 0701:40                  | 27              | 85                  |                 | 2               |                          |            |
| 1192           | 245 | 80/09/01                  | 0921:03                   | 0921:11                  | 20              | 84                  |                 | 2               |                          |            |
| 1193           | 245 | 80/09/01                  | 0937:51                   | 0939:14                  | 600             | 90                  |                 | 2               |                          |            |
| 1194           | 245 | 80/09/01                  | 1122:48                   | 1123:02                  | 60              | 86                  |                 | 2               |                          | AX         |
| 1195           | 245 | 80/09/01                  | 1255:00                   | 1256:03                  | 115             | 86                  |                 | 2               |                          | AX         |
| 1196           | 245 | 80/09/01                  | 1410:34                   | 1410:41                  | 18              | 70                  |                 | 2               |                          |            |
| 1197           | 245 | 80/09/01                  | 1723:55                   | 1724:40                  | 80              | 179                 | 1920            | 5               | 46, 1                    |            |
| 1198           | 245 | 80/09/01                  | 1854:15                   | 1855:05                  | 140             | 122                 | 2380            | 2               | 46, 2                    |            |
| 1199           | 245 | 80/09/01                  | 2232:55                   | 2233:15                  | 80              | 130                 | 560             | 2               | 46, 3                    |            |
| 1200           | 246 | 80/09/02                  | 0015:40                   | 0016:25                  | 180             | 147                 | 2520            | 5               | 46, 4                    |            |
| 1201           | 247 | 80/09/03                  | 0135:50                   | 0136:15                  | 60              | 120                 | 1080            | 2               | 46, 5                    |            |
| 1202           | 247 | 80/09/03                  | 0138:00                   | 0138:30                  | 60              | 81                  |                 | 2               |                          |            |
| 1203           | 247 | 80/09/03                  | 0316:55                   | 0318:20                  | 120             | 71                  |                 | 2               |                          |            |
| 1204           | 247 | 80/09/03                  | 0510:45                   | 0512:30                  | 195             | 82                  |                 | 2               |                          |            |
| 1205           | 247 | 80/09/03                  | 0633:40                   | 0635:20                  | 160             | 60                  |                 | 2               |                          |            |
| 1206           | 247 | 80/09/03                  | 1420:30                   | 1421:20                  | 100             | 285                 | 9300            | 5               | 46, 6                    | M          |
| 1207           | 247 | 80/09/03                  | 1736:15                   | 1737:05                  | 75              | 110                 | 825             | 2               | 46, 8                    |            |
| 1208           | 247 | 80/09/03                  | 1858:55                   | 1859:30                  | 50              | 104                 | 500             | 2               | 46, 9                    |            |
| 1209           | 247 | 80/09/03                  | 2051:10                   | 2056:30                  | 540             | 121                 | 12420           | 2               | 46, 10                   |            |
| 1210           | 248 | 80/09/04                  | 0155:05                   | 0201:20                  | 795             | 12860               | 1.11E+06        | 10              | 46, 11                   |            |
| 1211           | 248 | 80/09/04                  | 0246:35                   | 0248:55                  | 170             | 73                  |                 | 2               |                          |            |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1212           | 248 | 80/09/04                  | 0301:15                  | 0301:40                 | 60              | 71                  |                 | 2               |                          |       |
| 1213           | 248 | 80/09/04                  | 1057:15                  | 1057:30                 | 40              | 130                 | 760             | 2               | 46, 12                   |       |
| 1214           | 248 | 80/09/04                  | 1106:00                  | 1106:10                 | 30              | 87                  |                 | 2               |                          |       |
| 1215           | 248 | 80/09/04                  | 2215:00                  | 2216:54                 | 440             | 1801                | 1.20E+05        | 5               | 46, 13                   |       |
| 1216           | 249 | 80/09/05                  | 0011:45                  | 0011:55                 | 35              | 84                  |                 | 2               |                          |       |
| 1217           | 250 | 80/09/06                  | 0900:40                  | 0901:15                 | 100             | 132                 | 2313            | 2               | 46, 14                   | SN    |
| 1218           | 250 | 80/09/06                  | 0955:25                  | 0956:25                 | 110             | 57                  |                 | 2               |                          |       |
| * 1219         | 251 | 80/09/07                  | 0322:30                  | 0323:40                 | 225             | 287                 | 5625            | 5               | 46, 15                   | M     |
| * 1220         | 252 | 80/09/08                  | 0501:05                  | 0503:50                 | 505             | 3346                | 1.99E+05        | 10              | 47, 1                    | M     |
| * 1221         | 252 | 80/09/08                  | 0545:10                  | 0545:20                 | 95              | 78                  |                 | 2               |                          |       |
| * 1222         | 252 | 80/09/08                  | 1043:20                  | 1043:50                 | 70              | 72                  |                 | 2               |                          |       |
| * 1223         | 252 | 80/09/08                  | 1442:55                  | 1443:50                 | 95              | 135                 | 2945            | 2               | 47, 2                    |       |
| * 1224         | 253 | 80/09/09                  | 0146:20                  | 0147:00                 | 100             | 67                  |                 | 2               |                          |       |
| * 1225         | 253 | 80/09/09                  | 1527:55                  | 1530:30                 | 175             | 80                  |                 | 2               |                          |       |
| 1226           | 253 | 80/09/09                  | 2320:45                  | 2321:35                 | 115             | 75                  |                 | 2               |                          |       |
| 1227           | 254 | 80/09/10                  | 2152:40                  | 2157:35                 | 1030            | 310                 | 34680           | 2               | 47, 3                    |       |
| 1228           | 255 | 80/09/11                  | 0142:55                  | 0146:15                 | 305             | 72                  | 2135            | 2               | 47, 5                    |       |
| 1229           | 255 | 80/09/11                  | 0634:45                  | 0635:30                 | 80              | 104                 | 2080            | 2               | 47, 6                    |       |
| 1230           | 255 | 80/09/11                  | 0748:40                  | 0748:50                 | 75              | 65                  |                 | 2               |                          |       |
| 1231           | 255 | 80/09/11                  | 2215:00                  | 2216:00                 | 60              | 106                 | 780             | 2               | 47, 7                    |       |
| 1232           | 256 | 80/09/12                  | 0047:00                  | 0052:10                 | 500             | 81                  | 4500            | 2               | 47, 8                    |       |
| 1233           | 256 | 80/09/12                  | 0546:00                  | 0546:35                 | 260             | 350                 | 12480           | 5               | 47, 9                    |       |
| 1234           | 257 | 80/09/13                  | 0922:05                  | 0922:45                 | 140             | 139                 | 2800            | 5               | 47, 11                   |       |
| 1235           | 257 | 80/09/13                  | 2144:05                  | 2145:10                 | 115             | 72                  | 345             | 2               |                          |       |
| 1236           | 263 | 80/09/19                  | 0727:10                  | 0727:45                 | 70              | 111                 | 910             | 5               | 47, 12                   |       |
| 8584           | 263 | 80/09/19                  | 1920:54                  | 1921:00                 | 29              | 61                  | 1180            | 15              | 262, 5                   | NS    |
| 1237           | 264 | 80/09/20                  | 0256:00                  | 0256:55                 | 190             | 77                  |                 | 2               |                          |       |
| 1238           | 264 | 80/09/20                  | 1409:40                  | 1410:00                 | 175             | 99                  |                 | 2               |                          | NS    |
| 1239           | 264 | 80/09/20                  | 1938:45                  | 1940:40                 | 180             | 95                  |                 | 2               |                          |       |
| 1240           | 264 | 80/09/20                  | 2013:15                  | 2014:30                 | 235             | 163                 | 3878            | 2               | 47, 13                   |       |
| 1241           | 264 | 80/09/20                  | 2119:50                  | 2121:55                 | 435             | 185                 | 10875           | 10              | 47, 14                   | AX    |
| 1242           | 264 | 80/09/20                  | 2342:50                  | 2344:30                 | 175             | 65                  |                 | 2               |                          |       |
| 1243           | 265 | 80/09/21                  | 0111:15                  | 0111:40                 | 70              | 69                  |                 | 2               |                          |       |
| 5480           | 265 | 80/09/21                  | 1058:03                  | 1058:18                 | 92              | 99                  |                 | 2               |                          | EW    |
| 1244           | 266 | 80/09/22                  | 0539:00                  | 0540:00                 | 180             | 152                 | 6480            | 5               | 47, 15                   |       |
| 1245           | 266 | 80/09/22                  | 2022:10                  | 2022:55                 | 185             | 70                  |                 | 2               |                          |       |
| 1246           | 266 | 80/09/22                  | 2136:20                  | 2136:50                 | 110             | 73                  |                 | 2               |                          |       |
| 1247           | 267 | 80/09/23                  | 0221:25                  | 0222:30                 | 180             | 76                  |                 | 2               |                          |       |
| 1248           | 267 | 80/09/23                  | 0549:35                  | 0550:25                 | 165             | 82                  |                 | 2               |                          |       |
| 1249           | 267 | 80/09/23                  | 2152:30                  | 2153:50                 | 170             | 75                  |                 | 2               |                          |       |
| 1250           | 268 | 80/09/24                  | 0353:05                  | 0353:30                 | 115             | 70                  |                 | 2               |                          |       |
| 1251           | 268 | 80/09/24                  | 0727:20                  | 0732:47                 | 825             | 720                 | 60200           | 10              | 48, 1                    | M     |
| 1252           | 268 | 80/09/24                  | 1226:30                  | 1226:45                 | 55              | 152                 | 800             | 2               | 48, 2                    | M     |
| 1253           | 269 | 80/09/25                  | 1631:15                  | 1633:35                 | 500             | 147                 | 2971            | 2               |                          |       |
| 1254           | 269 | 80/09/25                  | 2145:10                  | 2145:20                 | 40              | 99                  |                 | 2               |                          |       |
| 1255           | 270 | 80/09/26                  | 0859:15                  | 0859:35                 | 70              | 73                  |                 | 2               |                          |       |
| 1256           | 270 | 80/09/26                  | 1037:40                  | 1037:50                 | 50              | 349                 | 2800            | 5               | 48, 3                    |       |
| 1257           | 270 | 80/09/26                  | 1517:45                  | 1521:00                 | 210             | 100                 | 840             | 2               | 48, 4                    |       |
| 1258           | 271 | 80/09/27                  | 0156:30                  | 0157:30                 | 125             | 90                  |                 | 2               |                          |       |
| 1259           | 271 | 80/09/27                  | 1459:20                  | 1459:40                 | 65              | 148                 | 1820            | 5               | 48, 5                    |       |
| 1260           | 271 | 80/09/27                  | 2314:55                  | 2315:20                 | 65              | 96                  |                 | 2               |                          |       |
| 1261           | 272 | 80/09/28                  | 0711:35                  | 0712:15                 | 75              | 128                 | 450             | 2               | 48, 6                    |       |
| 1262           | 272 | 80/09/28                  | 2324:30                  | 2324:50                 | 60              | 71                  |                 | 2               |                          |       |
| 1263           | 273 | 80/09/29                  | 0041:55                  | 0042:05                 | 25              | 71                  |                 | 2               |                          |       |
| 1264           | 273 | 80/09/29                  | 0218:40                  | 0219:35                 | 50              | 87                  |                 | 2               |                          |       |
| 1265           | 273 | 80/09/29                  | 0504:00                  | 0505:05                 | 210             | 161                 | 7560            | 2               | 48, 7                    |       |
| 1266           | 273 | 80/09/29                  | 2239:15                  | 2240:40                 | 105             | 715                 | 7245            | 10              | 48, 8                    |       |
| 1267           | 273 | 80/09/29                  | 2244:35                  | 2245:55                 | 180             | 201                 | 3960            | 5               | 48, 8                    |       |
| 1268           | 274 | 80/09/30                  | 1148:20                  | 1149:15                 | 435             | 558                 | 14790           | 5               | 48, 9                    |       |
| 1269           | 275 | 80/10/01                  | 0022:35                  | 0023:10                 | 75              | 60                  |                 | 2               |                          |       |
| 1270           | 275 | 80/10/01                  | 0035:50                  | 0037:55                 | 235             | 136                 | 2585            | 5               | 48, 10                   |       |
| 1271           | 275 | 80/10/01                  | 1009:50                  | 1010:40                 | 80              | 60                  |                 | 2               |                          |       |
| 1272           | 275 | 80/10/01                  | 1304:05                  | 1306:05                 | 190             | 65                  |                 | 2               |                          |       |
| 1273           | 275 | 80/10/01                  | 1506:15                  | 1507:15                 | 170             | 142                 | 3570            | 5               | 48, 11                   |       |
| 1274           | 275 | 80/10/01                  | 2001:00                  | 2002:35                 | 310             | 62                  | 1240            | 2               | 48, 12                   |       |
| 1275           | 276 | 80/10/02                  | 0156:15                  | 0159:05                 | 370             | 83                  | 3700            | 2               | 48, 13                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1276           | 276 | 80/10/02                  | 0312:25                  | 0313:20                 | 140             | 141                 | 5320            | 5               | 48, 14                   |       |
| 1277           | 277 | 80/10/03                  | 0820:30                  | 0822:00                 | 250             | 115                 | 2750            | 2               | 48, 15                   |       |
| 1278           | 277 | 80/10/03                  | 1735:30                  | 1735:55                 | 75              | 56                  |                 | 2               |                          | AX    |
| 1279           | 278 | 80/10/04                  | 0512:55                  | 0513:15                 | 55              | 201                 | 1375            | 2               | 48, 16                   |       |
| 1280           | 278 | 80/10/04                  | 1643:05                  | 1643:25                 | 50              | 61                  |                 | 2               |                          |       |
| 1281           | 279 | 80/10/05                  | 1251:10                  | 1251:30                 | 75              | 94                  |                 | 2               |                          |       |
| 1282           | 279 | 80/10/05                  | 1603:18                  | 1603:20                 | 30              | 95                  |                 | 2               |                          |       |
| 1283           | 279 | 80/10/05                  | 1614:03                  | 1614:04                 | 30              | 75                  |                 | 2               |                          |       |
| 1284           | 279 | 80/10/05                  | 1754:40                  | 1755:15                 | 90              | 75                  |                 | 2               |                          |       |
| 1285           | 280 | 80/10/06                  | 0120:15                  | 0123:30                 | 295             | 294                 | 10915           | 5               | 49, 1                    |       |
| 1286           | 280 | 80/10/06                  | 1436:00                  | 1436:55                 | 330             | 112                 | 1320            | 5               | 49, 2                    |       |
| 1287           | 280 | 80/10/06                  | 2114:35                  | 2115:30                 | 160             | 318                 | 5280            | 5               | 49, 3                    |       |
| 1288           | 281 | 80/10/07                  | 0007:15                  | 0007:55                 | 155             | 65                  |                 | 2               |                          |       |
| 1289           | 281 | 80/10/07                  | 0029:40                  | 0030:40                 | 130             | 138                 | 2210            | 2               | 49, 4                    |       |
| 1290           | 281 | 80/10/07                  | 0203:40                  | 0204:25                 | 105             | 79                  |                 | 2               |                          |       |
| 1291           | 281 | 80/10/07                  | 0302:35                  | 0303:50                 | 155             | 107                 | 1240            | 2               | 49, 5                    |       |
| 1292           | 281 | 80/10/07                  | 0926:25                  | 0928:50                 | 735             | 485                 | 73500           | 5               | 49, 6                    |       |
| 4281           | 281 | 80/10/07                  | 1409:55                  | 1412:50                 | 595             | 479                 | 27174           | 4               | 144, 1                   | I     |
| 4282           | 281 | 80/10/07                  | 1422:10                  | 1430:30                 | 1049            | 241                 | 20263           | 2               |                          | I     |
| 4283           | 281 | 80/10/07                  | 1502:40                  | 1503:40                 | 90              | 57                  |                 | 2               | 144, 1                   | I     |
| 1293           | 281 | 80/10/07                  | 1558:15                  | 1608:50                 | 1162            | 119                 | 17835           | 2               | 201, 1                   |       |
| 1294           | 281 | 80/10/07                  | 1719:55                  | 1721:10                 | 135             | 372                 | 5265            | 5               | 49, 8                    |       |
| 1295           | 281 | 80/10/07                  | 1855:00                  | 1856:10                 | 120             | 64                  |                 | 2               |                          |       |
| 1296           | 282 | 80/10/08                  | 0138:15                  | 0141:35                 | 555             | 736                 | 58037           | 5               | 49, 9                    |       |
| 1297           | 282 | 80/10/08                  | 0206:10                  | 0207:10                 | 155             | 88                  |                 | 2               |                          |       |
| 1298           | 282 | 80/10/08                  | 0258:00                  | 0258:50                 | 185             | 92                  |                 | 2               |                          |       |
| 1299           | 282 | 80/10/08                  | 0334:05                  | 0335:35                 | 210             | 172                 | 1249            | 2               | 49, 10                   |       |
| 1300           | 282 | 80/10/08                  | 0822:30                  | 0823:30                 | 125             | 75                  |                 | 2               |                          |       |
| 1301           | 282 | 80/10/08                  | 0955:05                  | 0956:00                 | 135             | 66                  |                 | 2               |                          |       |
| 1302           | 282 | 80/10/08                  | 1051:20                  | 1052:35                 | 145             | 88                  |                 | 2               |                          |       |
| 1303           | 282 | 80/10/08                  | 1058:40                  | 1059:50                 | 155             | 74                  |                 | 2               |                          |       |
| 1304           | 282 | 80/10/08                  | 1311:50                  | 1313:15                 | 180             | 79                  |                 | 2               |                          |       |
| 1305           | 282 | 80/10/08                  | 1411:35                  | 1412:45                 | 155             | 247                 | 3565            | 5               | 49, 11                   |       |
| 1306           | 282 | 80/10/08                  | 1534:45                  | 1536:05                 | 410             | 1070                | 72160           | 5               | 49, 12                   |       |
| 1307           | 282 | 80/10/08                  | 1914:25                  | 1916:20                 | 365             | 219                 | 7665            | 5               | 49, 14                   |       |
| 1308           | 282 | 80/10/08                  | 2022:30                  | 2027:30                 | 1350            | 2443                | 3.58E+05        | 10              | 49, 15                   | M     |
| 1309           | 283 | 80/10/09                  | 0742:05                  | 0743:20                 | 190             | 72                  |                 | 2               |                          |       |
| 1310           | 283 | 80/10/09                  | 1109:35                  | 1110:45                 | 125             | 63                  |                 | 2               |                          |       |
| 1311           | 283 | 80/10/09                  | 1123:25                  | 1124:55                 | 1440            | 26608               | 1.83E+06        | 5               | 50, 1                    |       |
| 1312           | 283 | 80/10/09                  | 1405:25                  | 1406:10                 | 85              | 78                  |                 | 2               |                          |       |
| 1313           | 283 | 80/10/09                  | 1748:30                  | 1749:45                 | 360             | 184                 | 4320            | 2               | 50, 2                    |       |
| 1314           | 283 | 80/10/09                  | 1929:20                  | 1929:55                 | 90              | 143                 | 1710            | 2               | 50, 3                    |       |
| 1315           | 283 | 80/10/09                  | 2218:50                  | 2219:59                 | 190             | 202                 | 8170            | 2               | 50, 4                    |       |
| 1316           | 284 | 80/10/10                  | 0022:30                  | 0023:50                 | 180             | 70                  |                 | 2               |                          |       |
| 1317           | 284 | 80/10/10                  | 0126:00                  | 0126:50                 | 130             | 156                 | 1560            | 2               | 50, 5                    |       |
| 1318           | 284 | 80/10/10                  | 0133:15                  | 0133:50                 | 190             | 77                  |                 | 2               |                          |       |
| 1319           | 284 | 80/10/10                  | 0330:40                  | 0333:15                 | 320             | 91                  | 4160            | 2               | 50, 6                    |       |
| 1320           | 284 | 80/10/10                  | 0628:30                  | 0631:50                 | 600             | 76                  | 3600            | 2               | 50, 7                    |       |
| 1321           | 284 | 80/10/10                  | 0649:00                  | 0650:30                 | 180             | 96                  |                 | 2               |                          |       |
| 1322           | 284 | 80/10/10                  | 1049:05                  | 1050:45                 | 830             | 495                 | 43990           | 5               | 50, 8                    |       |
| 1323           | 284 | 80/10/10                  | 1126:05                  | 1127:15                 | 385             | 110                 | 4620            | 2               | 50, 9                    |       |
| 1324           | 284 | 80/10/10                  | 1136:35                  | 1137:20                 | 135             | 66                  |                 | 2               |                          |       |
| 1325           | 284 | 80/10/10                  | 1713:10                  | 1713:30                 | 120             | 96                  |                 | 2               |                          |       |
| 5668           | 284 | 80/10/10                  | 1918:29                  | 1918:46                 | 34              | 206                 | 1391            | 4               | 181, 1                   | I     |
| 1326           | 285 | 80/10/11                  | 0452:55                  | 0454:23                 | 150             | 68                  |                 | 2               |                          |       |
| 1327           | 285 | 80/10/11                  | 0503:10                  | 0506:55                 | 355             | 78                  | 1775            | 2               | 50, 10                   |       |
| 1328           | 285 | 80/10/11                  | 0610:00                  | 0610:40                 | 80              | 298                 | 2960            | 5               | 50, 11                   |       |
| 1329           | 285 | 80/10/11                  | 0814:25                  | 0815:30                 | 145             | 91                  |                 | 2               |                          |       |
| 1330           | 285 | 80/10/11                  | 0819:00                  | 0819:45                 | 70              | 116                 | 1330            | 2               | 50, 12                   |       |
| 1331           | 285 | 80/10/11                  | 1303:35                  | 1304:40                 | 130             | 84                  |                 | 2               |                          |       |
| 1332           | 285 | 80/10/11                  | 1405:55                  | 1408:45                 | 435             | 91                  | 6090            | 10              | 50, 13                   | AX    |
| 1333           | 285 | 80/10/11                  | 1740:00                  | 1741:40                 | 215             | 1606                | 62995           | 5               | 50, 14                   |       |
| 1334           | 285 | 80/10/11                  | 2015:05                  | 2018:35                 | 305             | 102                 | 3355            | 2               | 50, 15                   |       |
| 1335           | 285 | 80/10/11                  | 2343:50                  | 2346:20                 | 310             | 109                 | 4340            | 2               | 50, 16                   |       |
| 1336           | 286 | 80/10/12                  | 0006:10                  | 0007:10                 | 150             | 72                  |                 | 2               |                          |       |
| 1337           | 286 | 80/10/12                  | 0156:25                  | 0157:10                 | 85              | 142                 | 1785            | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HH:MM:SS | PEAK<br>TIME<br>HH:MM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1338           | 286 | 80/10/12                  | 0158:40                   | 0159:25                  | 110             | 193                 | 1650            | 2               | 51, 1                    |       |
| 1339           | 286 | 80/10/12                  | 0429:25                   | 0430:10                  | 85              | 78                  |                 | 2               |                          |       |
| 1340           | 286 | 80/10/12                  | 0559:45                   | 0601:00                  | 155             | 92                  |                 | 2               |                          |       |
| 1341           | 286 | 80/10/12                  | 0726:45                   | 0728:00                  | 240             | 156                 | 5280            | 2               | 51, 2                    |       |
| 1342           | 286 | 80/10/12                  | 0806:15                   | 0807:00                  | 95              | 75                  |                 | 2               |                          |       |
| 1343           | 286 | 80/10/12                  | 0927:20                   | 0931:20                  | 280             | 75                  | 840             | 2               | 51, 3                    |       |
| 1344           | 286 | 80/10/12                  | 1047:30                   | 1048:10                  | 120             | 70                  |                 | 2               |                          |       |
| 1345           | 286 | 80/10/12                  | 1218:50                   | 1219:30                  | 95              | 114                 | 855             | 2               | 51, 4                    |       |
| 1346           | 286 | 80/10/12                  | 1552:50                   | 1553:55                  | 150             | 697                 | 13050           | 5               | 51, 5                    | FS    |
| 1347           | 286 | 80/10/12                  | 2148:10                   | 2148:55                  | 105             | 74                  |                 | 2               |                          |       |
| 1348           | 287 | 80/10/13                  | 0311:25                   | 0312:10                  | 100             | 75                  |                 | 2               |                          |       |
| 1349           | 287 | 80/10/13                  | 0323:20                   | 0324:10                  | 75              | 167                 | 1425            | 2               | 51, 6                    |       |
| 1350           | 287 | 80/10/13                  | 0411:35                   | 0416:40                  | 600             | 756                 | 88800           | 5               | 51, 7                    |       |
| 1351           | 287 | 80/10/13                  | 0616:40                   | 0617:45                  | 205             | 729                 | 22960           | 5               | 51, 8                    |       |
| 1352           | 287 | 80/10/13                  | 0742:55                   | 0745:35                  | 320             | 76                  | 960             | 2               | 51, 9                    |       |
| 1353           | 287 | 80/10/13                  | 0749:30                   | 0751:35                  | 310             | 69                  | 630             | 2               | 51, 9                    |       |
| 1354           | 287 | 80/10/13                  | 0821:10                   | 0821:55                  | 190             | 76                  |                 | 2               |                          |       |
| 1355           | 287 | 80/10/13                  | 0940:50                   | 0943:51                  | 781             | 1982                | 1.16E+05        | 5               | 51, 10                   | M     |
| 1356           | 287 | 80/10/13                  | 1110:20                   | 1111:40                  | 160             | 70                  |                 | 2               |                          |       |
| 1357           | 287 | 80/10/13                  | 1357:20                   | 1357:45                  | 60              | 90                  |                 | 2               |                          |       |
| 1358           | 287 | 80/10/13                  | 1547:50                   | 1548:20                  | 85              | 122                 | 1627            | 2               | 51, 11                   |       |
| 1359           | 287 | 80/10/13                  | 1842:55                   | 1844:15                  | 190             | 59                  |                 | 2               |                          |       |
| 1360           | 287 | 80/10/13                  | 2009:25                   | 2010:05                  | 125             | 74                  |                 | 2               |                          |       |
| 1361           | 287 | 80/10/13                  | 2012:20                   | 2013:25                  | 170             | 62                  |                 | 2               |                          |       |
| 1362           | 287 | 80/10/13                  | 2018:30                   | 2019:00                  | 65              | 126                 | 1625            | 2               | 51, 12                   |       |
| 1363           | 287 | 80/10/13                  | 2034:30                   | 2035:45                  | 170             | 204                 | 3740            | 5               | 51, 13                   |       |
| 1364           | 287 | 80/10/13                  | 2213:45                   | 2215:30                  | 250             | 289                 | 11098           | 2               | 51, 14                   |       |
| 1365           | 287 | 80/10/13                  | 2321:40                   | 2321:55                  | 60              | 133                 | 1269            | 2               | 51, 15                   |       |
| 1366           | 287 | 80/10/13                  | 2338:20                   | 2339:35                  | 95              | 75                  |                 | 2               |                          |       |
| 1367           | 287 | 80/10/13                  | 2345:40                   | 2347:10                  | 300             | 80                  |                 | 2               | 51, 16                   |       |
| 1368           | 288 | 80/10/14                  | 0010:45                   | 0011:30                  | 125             | 175                 | 2843            | 5               | 52, 1                    | M     |
| 1369           | 288 | 80/10/14                  | 0237:10                   | 0237:45                  | 60              | 162                 | 1482            | 2               | 52, 2                    |       |
| 1370           | 288 | 80/10/14                  | 0245:05                   | 0245:30                  | 350             | 266                 | 3327            | 5               | 52, 3                    |       |
| 1371           | 288 | 80/10/14                  | 0253:00                   | 0257:40                  | 440             | 75                  |                 | 2               | 52, 4                    |       |
| 1372           | 288 | 80/10/14                  | 0412:55                   | 0413:15                  | 35              | 712                 | 4324            | 5               | 52, 5                    |       |
| 1373           | 288 | 80/10/14                  | 0544:15                   | 0546:15                  | 515             | 399                 | 24420           | 5               | 52, 6                    | SN    |
| 1374           | 288 | 80/10/14                  | 0557:50                   | 0608:55                  | 2110            | 39583               | 1.49E+07        | 15              | 52, 6                    | M     |
| 1375           | 288 | 80/10/14                  | 0800:50                   | 0801:35                  | 110             | 248                 | 4252            | 2               | 52, 7                    |       |
| 1376           | 288 | 80/10/14                  | 0805:50                   | 0808:05                  | 300             | 94                  |                 | 2               | 52, 8                    |       |
| 1377           | 288 | 80/10/14                  | 0919:15                   | 0919:40                  | 55              | 70                  |                 | 2               |                          |       |
| 1378           | 288 | 80/10/14                  | 0942:55                   | 0943:50                  | 195             | 167                 | 2504            | 5               | 52, 9                    |       |
| 1379           | 288 | 80/10/14                  | 1100:30                   | 1101:55                  | 180             | 78                  |                 | 2               |                          |       |
| 1380           | 288 | 80/10/14                  | 1344:00                   | 1345:00                  | 205             | 147                 | 4578            | 2               | 52, 10                   | EW    |
| 1381           | 288 | 80/10/14                  | 1400:25                   | 1403:50                  | 295             | 310                 | 10061           | 2               | 52, 11                   | EW    |
| 1382           | 288 | 80/10/14                  | 1548:00                   | 1549:30                  | 155             | 83                  |                 | 2               |                          | EW    |
| 1383           | 288 | 80/10/14                  | 1553:00                   | 1553:50                  | 100             | 83                  |                 | 2               |                          | EW    |
| 1384           | 288 | 80/10/14                  | 1857:00                   | 1858:00                  | 120             | 90                  |                 | 2               |                          |       |
| 1385           | 288 | 80/10/14                  | 2203:45                   | 2204:05                  | 50              | 81                  |                 | 2               |                          |       |
| 1386           | 288 | 80/10/14                  | 2222:00                   | 2223:05                  | 95              | 177                 | 380             | 2               | 52, 12                   |       |
| 1387           | 288 | 80/10/14                  | 2224:15                   | 2224:50                  | 80              | 84                  |                 | 2               |                          |       |
| 1388           | 289 | 80/10/15                  | 0057:00                   | 0057:45                  | 95              | 93                  |                 | 2               |                          |       |
| 1389           | 289 | 80/10/15                  | 0107:00                   | 0107:55                  | 80              | 95                  |                 | 2               |                          |       |
| 1390           | 289 | 80/10/15                  | 0116:25                   | 0116:50                  | 90              | 329                 | 1800            | 5               | 52, 13                   | FS    |
| 1391           | 289 | 80/10/15                  | 0229:40                   | 0230:25                  | 135             | 157                 | 3915            | 2               | 52, 14                   |       |
| 1392           | 289 | 80/10/15                  | 0240:00                   | 0240:45                  | 65              | 160                 | 715             | 5               | 52, 15                   |       |
| 1393           | 289 | 80/10/15                  | 0303:40                   | 0305:20                  | 255             | 102                 | 9180            | 2               | 52, 16                   |       |
| 1394           | 289 | 80/10/15                  | 0309:50                   | 0310:10                  | 115             | 127                 | 1035            | 2               | 52, 16                   |       |
| 1395           | 289 | 80/10/15                  | 0423:10                   | 0423:25                  | 45              | 90                  |                 | 2               |                          |       |
| 5696           | 289 | 80/10/15                  | 0627:27                   | 0630:06                  | 187             | 82                  |                 | 2               |                          | I     |
| 5697           | 289 | 80/10/15                  | 0640:12                   | 0640:48                  | 120             | 74                  |                 | 2               |                          | I     |
| 1396           | 289 | 80/10/15                  | 0805:20                   | 0806:30                  | 140             | 87                  |                 | 2               |                          |       |
| 1397           | 289 | 80/10/15                  | 1036:50                   | 1037:20                  | 115             | 73                  |                 | 2               |                          |       |
| 1398           | 289 | 80/10/15                  | 1116:20                   | 1117:05                  | 140             | 90                  |                 | 2               |                          |       |
| 1399           | 289 | 80/10/15                  | 1122:05                   | 1122:35                  | 140             | 70                  |                 | 2               |                          |       |
| 1400           | 289 | 80/10/15                  | 1204:40                   | 1205:05                  | 50              | 63                  |                 | 2               |                          |       |
| 1401           | 289 | 80/10/15                  | 1242:05                   | 1247:10                  | 710             | 531                 | 83780           | 5               | 53, 1                    |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 1402           | 289 | 80/10/15                  | 1529:45                  | 1530:45                 | 195             | 71                  | 975             | 2               | 53, 2                    |           |
| 1403           | 289 | 80/10/15                  | 1548:50                  | 1549:45                 | 75              | 152                 | 3400            | 2               | 53, 3                    | M, ES, IS |
| 1404           | 289 | 80/10/15                  | 2021:35                  | 2022:05                 | 90              | 91                  |                 | 2               |                          |           |
| 1405           | 289 | 80/10/15                  | 2030:50                  | 2031:30                 | 70              | 89                  |                 | 2               |                          |           |
| 1406           | 289 | 80/10/15                  | 2344:35                  | 2346:15                 | 150             | 88                  |                 | 2               |                          |           |
| 1407           | 290 | 80/10/16                  | 0453:20                  | 0453:55                 | 90              | 94                  |                 | 2               |                          |           |
| 8585           | 290 | 80/10/16                  | 0604:31                  | 0604:38                 | 12              | 76                  | 664             | 14              | 262, 6                   | NS        |
| 1408           | 290 | 80/10/16                  | 0750:40                  | 0751:15                 | 170             | 97                  |                 | 2               |                          |           |
| 1409           | 290 | 80/10/16                  | 0935:50                  | 0936:30                 | 150             | 87                  |                 | 2               |                          |           |
| 1410           | 290 | 80/10/16                  | 1339:55                  | 1340:10                 | 40              | 107                 | 549             | 2               | 53, 4                    |           |
| 1411           | 290 | 80/10/16                  | 1651:50                  | 1652:55                 | 145             | 130                 | 1740            | 2               | 53, 5                    |           |
| 1412           | 290 | 80/10/16                  | 2013:45                  | 2014:20                 | 65              | 110                 | 910             | 2               | 53, 6                    |           |
| 1413           | 290 | 80/10/16                  | 2015:50                  | 2016:35                 | 95              | 89                  |                 | 2               |                          |           |
| 1414           | 290 | 80/10/16                  | 2345:50                  | 2346:35                 | 120             | 399                 | 6480            | 5               | 53, 7                    |           |
| 1415           | 291 | 80/10/17                  | 1039:00                  | 1039:55                 | 190             | 164                 | 1900            | 5               | 53, 8                    |           |
| 1416           | 291 | 80/10/17                  | 1102:25                  | 1103:00                 | 70              | 73                  |                 | 2               |                          |           |
| 1417           | 291 | 80/10/17                  | 1200:05                  | 1200:15                 | 105             | 86                  |                 | 2               |                          |           |
| 1418           | 291 | 80/10/17                  | 1339:45                  | 1341:20                 | 185             | 71                  |                 | 2               |                          |           |
| 5698           | 291 | 80/10/17                  | 1349:02                  | 1349:33                 | 90              | 147                 | 2365            | 2               | 181, 15                  | I         |
| 1419           | 291 | 80/10/17                  | 1837:50                  | 1838:40                 | 110             | 72                  |                 | 2               |                          |           |
| 1420           | 291 | 80/10/17                  | 2012:20                  | 2013:00                 | 200             | 442                 | 13200           | 5               | 53, 9                    |           |
| 1421           | 291 | 80/10/17                  | 2136:55                  | 2143:35                 | 545             | 80                  | 5450            | 2               | 53, 10                   |           |
| 1422           | 291 | 80/10/17                  | 2154:20                  | 2155:10                 | 125             | 73                  |                 | 2               |                          |           |
| 1423           | 291 | 80/10/17                  | 2218:00                  | 2218:20                 | 65              | 83                  |                 | 2               |                          |           |
| 1424           | 291 | 80/10/17                  | 2336:00                  | 2336:15                 | 205             | 524                 | 23985           | 5               | 53, 11                   |           |
| 1425           | 291 | 80/10/17                  | 2353:00                  | 2353:15                 | 30              | 121                 | 240             | 2               | 53, 12                   |           |
| 1426           | 292 | 80/10/18                  | 0125:10                  | 0125:40                 | 80              | 74                  |                 | 2               |                          |           |
| 1427           | 292 | 80/10/18                  | 0137:55                  | 0142:00                 | 330             | 167                 | 7920            | 2               | 53, 13                   | ES        |
| 1428           | 292 | 80/10/18                  | 0236:35                  | 0239:55                 | 325             | 250                 | 5200            | 5               | 53, 14                   |           |
| 1429           | 292 | 80/10/18                  | 0318:45                  | 0319:55                 | 135             | 147                 | 2430            | 2               | 53, 15                   |           |
| 1430           | 292 | 80/10/18                  | 0358:00                  | 0358:10                 | 180             | 82                  |                 | 2               |                          |           |
| 1431           | 292 | 80/10/18                  | 0416:20                  | 0416:55                 | 145             | 94                  |                 | 2               |                          |           |
| 1432           | 292 | 80/10/18                  | 0425:55                  | 0427:00                 | 165             | 119                 | 1815            | 2               | 53, 16                   |           |
| 1433           | 292 | 80/10/18                  | 0438:20                  | 0439:25                 | 200             | 286                 | 5000            | 2               | 54, 1                    |           |
| 1434           | 292 | 80/10/18                  | 0539:45                  | 0540:10                 | 75              | 69                  |                 | 2               |                          |           |
| 1435           | 292 | 80/10/18                  | 0542:00                  | 0543:00                 | 145             | 71                  |                 | 2               |                          |           |
| 1436           | 292 | 80/10/18                  | 0731:40                  | 0732:00                 | 55              | 67                  |                 | 2               |                          |           |
| 1437           | 292 | 80/10/18                  | 0739:50                  | 0741:20                 | 130             | 76                  |                 | 2               |                          |           |
| 5704           | 292 | 80/10/18                  | 0939:40                  | 0939:51                 | 26              | 130                 | 888             | 3               | 182, 4                   | I         |
| 5705           | 292 | 80/10/18                  | 1040:26                  | 1044:20                 | 382             | 291                 | 20075           | 5               | 182, 5                   | I         |
| 5706           | 292 | 80/10/18                  | 1117:05                  | 1117:31                 | 82              | 86                  |                 | 2               |                          | I         |
| 5707           | 292 | 80/10/18                  | 1252:42                  | 1253:09                 | 109             | 107                 | 896             | 2               | 182, 6                   | I         |
| 5708           | 292 | 80/10/18                  | 1506:54                  | 1507:15                 | 174             | 183                 | 3048            | 2               | 182, 7                   | I         |
| 1438           | 292 | 80/10/18                  | 1522:45                  | 1525:10                 | 200             | 211                 | 6400            | 5               | 54, 2                    |           |
| 1439           | 292 | 80/10/18                  | 1819:30                  | 1823:25                 | 1770            | 370                 | 35400           | 5               | 54, 3                    |           |
| 1440           | 292 | 80/10/18                  | 2023:20                  | 2023:30                 | 45              | 95                  |                 | 2               |                          |           |
| 1441           | 292 | 80/10/18                  | 2130:10                  | 2130:35                 | 220             | 212                 | 7260            | 5               | 54, 4                    | SN, EW    |
| 1442           | 292 | 80/10/18                  | 2142:20                  | 2143:30                 | 150             | 154                 | 3000            | 2               | 54, 5                    | EW        |
| 1443           | 292 | 80/10/18                  | 2145:35                  | 2146:00                 | 560             | 1061                | 43120           | 5               | 54, 5                    | M, FS, EW |
| 1444           | 292 | 80/10/18                  | 2329:20                  | 2330:25                 | 190             | 82                  |                 | 2               |                          |           |
| 1445           | 293 | 80/10/19                  | 0046:25                  | 0046:45                 | 115             | 140                 | 1610            | 2               | 54, 6                    |           |
| 4300           | 293 | 80/10/19                  | 0230:55                  | 0231:05                 | 45              | 89                  |                 | 2               |                          | I         |
| 4301           | 293 | 80/10/19                  | 0301:10                  | 0301:45                 | 180             | 72                  |                 | 2               |                          | I         |
| 1446           | 293 | 80/10/19                  | 0313:20                  | 0313:50                 | 180             | 112                 | 1440            | 2               | 54, 7                    |           |
| 1447           | 293 | 80/10/19                  | 0358:45                  | 0359:45                 | 75              | 78                  |                 | 2               |                          |           |
| 1448           | 293 | 80/10/19                  | 0532:35                  | 0540:40                 | 865             | 155                 | 9515            | 2               | 54, 8                    |           |
| 1449           | 293 | 80/10/19                  | 0552:30                  | 0553:05                 | 70              | 144                 | 700             | 5               | 54, 8                    |           |
| 1450           | 293 | 80/10/19                  | 0608:25                  | 0608:40                 | 80              | 161                 | 1200            | 2               | 54, 9                    |           |
| 4302           | 293 | 80/10/19                  | 0713:25                  | 0713:35                 | 35              | 75                  |                 | 2               |                          | I         |
| 1451           | 293 | 80/10/19                  | 0743:00                  | 0743:30                 | 70              | 75                  |                 | 2               |                          |           |
| 1452           | 293 | 80/10/19                  | 0746:55                  | 0747:35                 | 80              | 75                  |                 | 2               |                          |           |
| 4303           | 293 | 80/10/19                  | 0754:10                  | 0759:40                 | 400             | 73                  | 1696            | 2               | 144, 8                   | I         |
| 1453           | 293 | 80/10/19                  | 0848:20                  | 0849:10                 | 150             | 109                 | 1800            | 2               | 54, 10                   |           |
| 1454           | 293 | 80/10/19                  | 0900:25                  | 0900:55                 | 190             | 77                  |                 | 2               |                          |           |
| 1455           | 293 | 80/10/19                  | 0916:30                  | 0917:10                 | 230             | 174                 | 2070            | 2               | 54, 11                   |           |
| 1456           | 293 | 80/10/19                  | 0937:55                  | 0938:45                 | 165             | 910                 | 20460           | 5               | 54, 12                   | M         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 1457           | 293 | 80/10/19                  | 1237:55                  | 1238:30                 | 230             | 275                 | 16330           | 5               | 54, 13                   |          |
| 1458           | 293 | 80/10/19                  | 1525:55                  | 1526:30                 | 70              | 76                  |                 | 2               |                          |          |
| 1459           | 294 | 80/10/20                  | 0901:30                  | 0903:00                 | 180             | 201                 | 7670            | 2               | 54, 14                   |          |
| 1460           | 294 | 80/10/20                  | 1032:50                  | 1033:35                 | 420             | 101                 | 4714            | 2               | 54, 15                   |          |
| 1461           | 294 | 80/10/20                  | 1149:40                  | 1151:05                 | 130             | 66                  |                 | 2               |                          |          |
| 1462           | 294 | 80/10/20                  | 1831:15                  | 1832:10                 | 245             | 4922                | 60025           | 10              | 54, 16                   | M ,FS    |
| 1463           | 294 | 80/10/20                  | 2305:35                  | 2306:15                 | 85              | 168                 | 975             | 2               | 55, 1                    |          |
| 1464           | 295 | 80/10/21                  | 0042:40                  | 0043:35                 | 95              | 230                 | 2375            | 2               | 55, 2                    |          |
| 1465           | 295 | 80/10/21                  | 0536:40                  | 0537:30                 | 180             | 80                  |                 | 2               |                          |          |
| 1466           | 297 | 80/10/23                  | 0735:00                  | 0738:25                 | 940             | 4365                | 3.77E+05        | 10              | 55, 3                    | M        |
| 1467           | 297 | 80/10/23                  | 1031:50                  | 1033:55                 | 270             | 1174                | 40500           | 10              | 55, 4                    |          |
| 1468           | 297 | 80/10/23                  | 1042:55                  | 1043:45                 | 155             | 91                  |                 | 2               |                          |          |
| 1469           | 297 | 80/10/23                  | 1225:25                  | 1226:10                 | 185             | 235                 | 4810            | 5               | 55, 5                    |          |
| 5712           | 298 | 80/10/24                  | 0029:50                  | 0031:04                 | 166             | 93                  |                 | 2               |                          | I        |
| 1470           | 299 | 80/10/25                  | 0536:50                  | 0539:30                 | 405             | 247                 | 23490           | 5               | 55, 6                    | M        |
| 1471           | 299 | 80/10/25                  | 0819:45                  | 0820:30                 | 205             | 148                 | 6150            | 2               | 55, 7                    | SN       |
| 1472           | 299 | 80/10/25                  | 0955:55                  | 0956:20                 | 695             | 13257               | 1.95E+05        | 5               | 55, 8                    | M ,SN,ES |
| 1473           | 300 | 80/10/26                  | 0033:20                  | 0033:35                 | 30              | 99                  |                 | 2               |                          |          |
| 1474           | 300 | 80/10/26                  | 0101:35                  | 0102:00                 | 125             | 83                  |                 | 2               |                          |          |
| 1475           | 300 | 80/10/26                  | 0714:15                  | 0714:30                 | 35              | 70                  |                 | 2               |                          |          |
| 1476           | 300 | 80/10/26                  | 0716:20                  | 0717:20                 | 110             | 108                 | 5720            | 2               | 55, 9                    |          |
| 1477           | 300 | 80/10/26                  | 1439:45                  | 1441:25                 | 145             | 85                  |                 | 2               |                          |          |
| 1478           | 300 | 80/10/26                  | 2238:30                  | 2240:12                 | 280             | 104                 | 2800            | 2               | 55, 10                   |          |
| 1479           | 301 | 80/10/27                  | 1129:25                  | 1129:30                 | 40              | 83                  |                 | 2               |                          |          |
| 1480           | 302 | 80/10/28                  | 0045:55                  | 0046:25                 | 90              | 81                  |                 | 2               |                          |          |
| 1481           | 302 | 80/10/28                  | 0223:30                  | 0224:00                 | 55              | 73                  |                 | 2               |                          |          |
| 1482           | 302 | 80/10/28                  | 1216:05                  | 1216:20                 | 50              | 97                  |                 | 2               |                          |          |
| 1483           | 302 | 80/10/28                  | 2128:05                  | 2129:05                 | 90              | 80                  |                 | 2               |                          |          |
| 4304           | 303 | 80/10/29                  | 0148:15                  | 0148:30                 | 55              | 66                  |                 | 2               |                          | I        |
| 1484           | 304 | 80/10/30                  | 0031:00                  | 0031:40                 | 105             | 66                  |                 | 2               |                          |          |
| 1485           | 304 | 80/10/30                  | 1525:00                  | 1525:50                 | 120             | 110                 | 720             | 2               | 55, 11                   |          |
| 1486           | 304 | 80/10/30                  | 1759:20                  | 1800:45                 | 280             | 136                 | 4760            | 2               | 55, 12                   |          |
| 1487           | 304 | 80/10/30                  | 1916:30                  | 1917:05                 | 110             | 114                 | 1650            | 2               | 55, 13                   |          |
| 1488           | 304 | 80/10/30                  | 2049:05                  | 2052:55                 | 765             | 70                  | 6885            | 2               | 55, 14                   |          |
| 1489           | 305 | 80/10/31                  | 0201:55                  | 0202:30                 | 80              | 103                 | 960             | 2               | 55, 15                   |          |
| 1490           | 305 | 80/10/31                  | 0204:35                  | 0204:50                 | 40              | 1018                | 22400           | 5               | 55, 15                   | FS       |
| 1491           | 305 | 80/10/31                  | 0205:35                  | 0206:15                 | 100             | 94                  |                 | 2               | 55, 15                   |          |
| 5715           | 305 | 80/10/31                  | 0319:59                  | 0322:07                 | 462             | 116                 | 5119            | 2               | 182, 11                  | I        |
| 1492           | 305 | 80/10/31                  | 0936:20                  | 0937:10                 | 245             | 135                 | 3185            | 2               | 55, 16                   |          |
| 1493           | 305 | 80/10/31                  | 1254:15                  | 1254:30                 | 35              | 204                 | 875             | 5               | 56, 1                    |          |
| 1494           | 305 | 80/10/31                  | 2051:35                  | 2052:00                 | 65              | 67                  |                 | 2               |                          |          |
| 1495           | 305 | 80/10/31                  | 2249:45                  | 2250:15                 | 50              | 73                  |                 | 2               |                          |          |
| 1496           | 306 | 80/11/01                  | 0518:30                  | 0519:15                 | 180             | 72                  |                 | 2               |                          |          |
| 1497           | 306 | 80/11/01                  | 1419:45                  | 1420:00                 | 45              | 72                  |                 | 2               |                          |          |
| 1498           | 306 | 80/11/01                  | 1915:05                  | 1919:15                 | 565             | 1004                | 83907           | 5               | 56, 2                    | M        |
| 1499           | 307 | 80/11/02                  | 0205:40                  | 0211:05                 | 580             | 241                 | 14666           | 2               | 56, 3                    |          |
| 1500           | 307 | 80/11/02                  | 1418:35                  | 1419:00                 | 115             | 1627                | 21390           | 10              | 56, 6                    | M ,FS    |
| 1501           | 307 | 80/11/02                  | 1603:40                  | 1604:50                 | 135             | 100                 | 1485            | 2               | 56, 7                    |          |
| 5716           | 307 | 80/11/02                  | 1904:50                  | 1905:27                 | 76              | 155                 | 2257            | 4               | 182, 12                  | I        |
| 5717           | 307 | 80/11/02                  | 1910:53                  | 1911:52                 | 102             | 69                  |                 | 2               |                          | I        |
| 1502           | 307 | 80/11/02                  | 2358:15                  | 0001:55                 | 540             | 133                 | 12420           | 5               | 56, 8                    |          |
| 1503           | 308 | 80/11/03                  | 0157:10                  | 0159:25                 | 885             | 469                 | 1.07E+05        | 5               | 56, 9                    |          |
| 1504           | 308 | 80/11/03                  | 0331:15                  | 0338:10                 | 960             | 1002                | 1.14E+05        | 10              | 56, 10                   | M        |
| 1505           | 308 | 80/11/03                  | 1548:40                  | 1554:35                 | 600             | 74                  | 4800            | 2               | 56, 11                   |          |
| 1506           | 308 | 80/11/03                  | 1949:15                  | 1950:00                 | 145             | 85                  |                 | 2               |                          |          |
| 1507           | 308 | 80/11/03                  | 2117:45                  | 2118:10                 | 40              | 92                  |                 | 2               |                          |          |
| 1508           | 308 | 80/11/03                  | 2257:25                  | 2257:50                 | 50              | 62                  |                 | 2               |                          |          |
| 1509           | 309 | 80/11/04                  | 0131:35                  | 0132:05                 | 60              | 62                  |                 | 2               |                          |          |
| 1510           | 309 | 80/11/04                  | 0148:20                  | 0149:50                 | 1260            | 475                 | 1.34E+05        | 5               | 56, 12                   |          |
| 1511           | 309 | 80/11/04                  | 1000:45                  | 1001:10                 | 30              | 90                  |                 | 2               |                          |          |
| 5718           | 309 | 80/11/04                  | 1501:30                  | 1501:48                 | 63              | 362                 | 3035            | 3               | 182, 13                  | I        |
| 5719           | 309 | 80/11/04                  | 1505:08                  | 1507:13                 | 247             | 191                 | 17432           | 2               | 182, 14                  | I ,EN    |
| 1512           | 309 | 80/11/04                  | 1551:40                  | 1551:50                 | 145             | 81                  |                 | 2               |                          |          |
| 1513           | 309 | 80/11/04                  | 1602:10                  | 1602:25                 | 40              | 113                 | 560             | 2               | 56, 13                   |          |
| 1514           | 309 | 80/11/04                  | 1812:50                  | 1813:10                 | 50              | 98                  |                 | 2               |                          |          |
| 1515           | 309 | 80/11/04                  | 1952:55                  | 1954:25                 | 195             | 97                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 1516           | 309 | 80/11/04                  | 2050:40                  | 2052:30                 | 230             | 97                  | 2990            | 2               | 56, 14                   |          |
| 1517           | 309 | 80/11/04                  | 2114:15                  | 2114:45                 | 50              | 105                 | 450             | 2               | 56, 15                   |          |
| 1518           | 309 | 80/11/04                  | 2123:30                  | 2123:50                 | 35              | 86                  |                 | 2               |                          |          |
| 1519           | 310 | 80/11/05                  | 0135:10                  | 0135:45                 | 65              | 130                 | 1690            | 2               | 56, 16                   |          |
| 1520           | 310 | 80/11/05                  | 0139:35                  | 0141:00                 | 150             | 64                  |                 | 2               |                          |          |
| 1521           | 310 | 80/11/05                  | 0304:30                  | 0305:25                 | 125             | 94                  |                 | 2               |                          |          |
| 1522           | 310 | 80/11/05                  | 0505:05                  | 0506:35                 | 145             | 95                  |                 | 2               |                          |          |
| 1523           | 310 | 80/11/05                  | 0635:35                  | 0636:00                 | 90              | 546                 | 5220            | 5               | 57, 1                    |          |
| 1524           | 310 | 80/11/05                  | 0825:35                  | 0832:30                 | 1020            | 241                 | 68340           | 2               | 57, 2                    | M ,EN    |
| 1525           | 310 | 80/11/05                  | 1131:20                  | 1132:25                 | 260             | 229                 | 7800            | 2               | 57, 3                    |          |
| 1526           | 310 | 80/11/05                  | 1234:20                  | 1234:35                 | 25              | 70                  |                 | 2               |                          |          |
| 1527           | 310 | 80/11/05                  | 1236:55                  | 1237:10                 | 65              | 94                  |                 | 2               |                          |          |
| 1528           | 310 | 80/11/05                  | 1405:55                  | 1406:15                 | 900             | 1176                | 2.32E+05        | 2               | 57, 4                    | M ,SN,ES |
| 5720           | 310 | 80/11/05                  | 1544:42                  | 1545:34                 | 85              | 87                  |                 | 2               |                          | I        |
| 1529           | 310 | 80/11/05                  | 1721:10                  | 1722:15                 | 110             | 62                  |                 | 2               |                          |          |
| 1530           | 310 | 80/11/05                  | 1934:40                  | 1936:20                 | 755             | 202                 | 59267           | 2               | 57, 5                    |          |
| 1531           | 310 | 80/11/05                  | 2123:05                  | 2123:10                 | 30              | 69                  |                 | 2               |                          |          |
| 1532           | 310 | 80/11/05                  | 2126:10                  | 2126:35                 | 60              | 80                  |                 | 2               |                          |          |
| 1533           | 310 | 80/11/05                  | 2225:40                  | 2226:30                 | 230             | 3151                | 62560           | 10              | 57, 6                    | M        |
| 1534           | 310 | 80/11/05                  | 2232:10                  | 2233:05                 | 350             | 12730               | 4.61E+05        | 10              | 57, 6                    | FS       |
| 1535           | 310 | 80/11/05                  | 2257:40                  | 2258:00                 | 55              | 95                  |                 | 2               |                          |          |
| 1536           | 310 | 80/11/05                  | 2301:05                  | 2301:20                 | 45              | 447                 | 2205            | 5               | 57, 7                    | FS       |
| 1537           | 310 | 80/11/05                  | 2345:10                  | 2347:20                 | 160             | 110                 | 2080            | 2               | 57, 9                    |          |
| 1538           | 310 | 80/11/05                  | 2353:00                  | 2353:25                 | 70              | 85                  |                 | 2               |                          |          |
| 1539           | 311 | 80/11/06                  | 0026:25                  | 0027:15                 | 230             | 139                 | 2300            | 2               | 57, 10                   |          |
| 1540           | 311 | 80/11/06                  | 0115:35                  | 0116:30                 | 180             | 70                  |                 | 2               |                          |          |
| 1541           | 311 | 80/11/06                  | 0128:25                  | 0147:30                 | 2700            | 1072                | 3.00E+05        | 5               | 57, 11                   | M        |
| 1542           | 311 | 80/11/06                  | 0322:05                  | 0322:50                 | 105             | 74                  |                 | 2               |                          |          |
| 1543           | 311 | 80/11/06                  | 0324:10                  | 0348:00                 | 7395            | 155347              | 7.39E+07        | 15              | 201, 2                   | EN,IN,IS |
| 1544           | 311 | 80/11/06                  | 0626:40                  | 0627:25                 | 305             | 172                 | 11550           | 5               | 57, 12                   |          |
| 1545           | 311 | 80/11/06                  | 0647:30                  | 0650:55                 | 640             | 2613                | 2.37E+05        | 10              | 57, 13                   | M        |
| 1546           | 311 | 80/11/06                  | 0950:15                  | 0950:30                 | 140             | 188                 | 2100            | 5               | 57, 14                   |          |
| 4305           | 311 | 80/11/06                  | 1000:35                  | 1001:05                 | 45              | 71                  |                 | 2               |                          | I        |
| 1547           | 311 | 80/11/06                  | 1139:05                  | 1145:05                 | 515             | 98                  | 4120            | 2               | 57, 15                   |          |
| 1548           | 311 | 80/11/06                  | 1226:30                  | 1234:25                 | 490             | 497                 | 56350           | 2               | 57, 16                   | M ,ES    |
| 1549           | 311 | 80/11/06                  | 1404:15                  | 1416:20                 | 750             | 1553                | 1.16E+05        | 5               | 58, 1                    | M ,ES    |
| 1550           | 311 | 80/11/06                  | 1454:25                  | 1501:30                 | 3840            | 1553                | 2.46E+05        | 5               | 58, 2                    | M ,IN,ES |
| 1551           | 311 | 80/11/06                  | 1624:50                  | 1625:15                 | 105             | 123                 | 1365            | 2               | 58, 3                    |          |
| 1552           | 311 | 80/11/06                  | 1713:45                  | 1727:22                 | 1570            | 1236                | 1.62E+05        | 5               | 58, 4                    | M ,ES    |
| 1553           | 311 | 80/11/06                  | 1758:55                  | 1759:00                 | 85              | 137                 | 1615            | 2               | 58, 4                    |          |
| 6394           | 311 | 80/11/06                  | 1917:39                  | 1921:57                 | 410             | 124                 | 12657           | 2               | 58, 5                    | AX       |
| 1554           | 311 | 80/11/06                  | 1931:55                  | 1941:15                 | 975             | 5614                | 8.79E+05        | 5               | 58, 5                    | M ,EN    |
| 1555           | 311 | 80/11/06                  | 2024:40                  | 2026:50                 | 300             | 227                 | 7800            | 2               | 58, 6                    |          |
| 1556           | 311 | 80/11/06                  | 2037:05                  | 2038:50                 | 455             | 353                 | 25480           | 2               | 58, 6                    |          |
| 1557           | 311 | 80/11/06                  | 2100:15                  | 2101:00                 | 115             | 69                  |                 | 2               |                          |          |
| 1558           | 311 | 80/11/06                  | 2104:35                  | 2104:45                 | 25              | 88                  |                 | 2               |                          |          |
| 1559           | 311 | 80/11/06                  | 2217:00                  | 2221:55                 | 1240            | 1020                | 2.33E+05        | 5               | 58, 7                    | M        |
| 1560           | 311 | 80/11/06                  | 2243:20                  | 2249:15                 | 565             | 101                 | 3955            | 2               | 58, 7                    |          |
| 1561           | 311 | 80/11/06                  | 2343:05                  | 2344:10                 | 65              | 70                  |                 | 2               |                          |          |
| 1562           | 312 | 80/11/07                  | 0121:10                  | 0123:20                 | 275             | 116                 | 2200            | 2               | 58, 8                    |          |
| 4386           | 312 | 80/11/07                  | 0135:45                  | 0136:20                 | 75              | 256                 | 1125            | 2               | 58, 8                    | I        |
| 4387           | 312 | 80/11/07                  | 0137:15                  | 0139:05                 | 220             | 85                  | 1980            | 2               | 58, 8                    | I        |
| 4388           | 312 | 80/11/07                  | 0141:50                  | 0142:30                 | 195             | 98                  |                 | 2               | 58, 8                    | I        |
| 4389           | 312 | 80/11/07                  | 0145:35                  | 0146:25                 | 160             | 139                 | 4160            | 2               | 58, 8                    | I        |
| 4390           | 312 | 80/11/07                  | 0149:40                  | 0150:40                 | 180             | 406                 | 5940            | 5               | 58, 8                    | I        |
| 4391           | 312 | 80/11/07                  | 0156:35                  | 0157:40                 | 155             | 291                 | 5735            | 5               | 58, 8                    | I        |
| 1563           | 312 | 80/11/07                  | 0200:09                  | 0204:55                 | 661             | 86574               | 1.56E+07        | 15              | 58, 8                    | M ,EN    |
| 1564           | 312 | 80/11/07                  | 0332:15                  | 0333:40                 | 215             | 307                 | 7955            | 5               | 58, 9                    |          |
| 1565           | 312 | 80/11/07                  | 0437:35                  | 0454:30                 | 1745            | 272                 | 71545           | 2               | 58, 10                   |          |
| 1566           | 312 | 80/11/07                  | 0516:20                  | 0516:40                 | 50              | 99                  |                 | 2               | 58, 10                   |          |
| 1567           | 312 | 80/11/07                  | 0651:10                  | 0654:45                 | 280             | 70                  | 1400            | 2               | 58, 11                   |          |
| 1568           | 312 | 80/11/07                  | 0807:55                  | 0808:20                 | 80              | 226                 | 2880            | 2               | 58, 12                   |          |
| 1569           | 312 | 80/11/07                  | 0812:10                  | 0812:25                 | 85              | 102                 | 595             | 2               | 58, 12                   |          |
| 1570           | 312 | 80/11/07                  | 0817:35                  | 0817:45                 | 20              | 106                 | 260             | 2               | 58, 12                   |          |
| 1571           | 312 | 80/11/07                  | 1000:40                  | 1001:25                 | 70              | 88                  |                 | 2               |                          |          |
| 1572           | 312 | 80/11/07                  | 1007:35                  | 1007:55                 | 40              | 154                 | 880             | 2               | 58, 13                   | M        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1573           | 312 | 80/11/07                  | 1132:40                  | 1134:40                 | 500             | 365                 | 26000           | 2               | 58, 14                   |       |
| 1574           | 312 | 80/11/07                  | 1259:55                  | 1301:55                 | 710             | 953                 | 1.61E+05        | 2               | 59, 1                    | SA    |
| 1575           | 312 | 80/11/07                  | 1315:30                  | 1316:35                 | 170             | 89                  |                 | 2               |                          |       |
| 1576           | 312 | 80/11/07                  | 1408:50                  | 1410:30                 | 235             | 178                 | 3995            | 2               | 59, 2                    | M, ES |
| 1577           | 312 | 80/11/07                  | 1439:20                  | 1440:00                 | 525             | 1267                | 1.03E+05        | 5               | 59, 3                    | SA    |
| 1578           | 312 | 80/11/07                  | 1454:25                  | 1455:05                 | 140             | 89                  |                 | 2               |                          |       |
| 1579           | 312 | 80/11/07                  | 1536:05                  | 1536:50                 | 255             | 654                 | 12750           | 5               | 59, 4                    |       |
| 1580           | 312 | 80/11/07                  | 1713:00                  | 1713:15                 | 40              | 113                 | 720             | 2               | 59, 5                    |       |
| 1581           | 312 | 80/11/07                  | 1726:10                  | 1733:20                 | 2280            | 6859                | 1.70E+06        | 10              | 59, 6                    | M, DG |
| 1582           | 312 | 80/11/07                  | 1849:30                  | 1850:10                 | 80              | 71                  |                 | 2               |                          |       |
| 1583           | 312 | 80/11/07                  | 1857:00                  | 1857:30                 | 120             | 62                  |                 | 2               |                          |       |
| 1584           | 312 | 80/11/07                  | 2032:45                  | 2033:00                 | 60              | 80                  |                 | 2               |                          |       |
| 6831           | 312 | 80/11/07                  | 2053:34                  | 2057:11                 | 1327            | 62                  | 7150            | 2               | 213, 16                  |       |
| 6828           | 312 | 80/11/07                  | 2157:33                  | 2200:30                 | 2523            | 90                  | 29171           | 2               | 213, 15                  | I, SN |
| 6829           | 312 | 80/11/07                  | 2219:14                  | 2219:30                 | 32              | 252                 | 1611            | 3               | 213, 15                  | I     |
| 1585           | 312 | 80/11/07                  | 2223:50                  | 2224:15                 | 50              | 76                  |                 | 2               |                          |       |
| 1586           | 312 | 80/11/07                  | 2226:00                  | 2227:25                 | 490             | 78                  | 4900            | 2               | 59, 7                    |       |
| 1587           | 313 | 80/11/08                  | 0118:15                  | 0119:25                 | 300             | 489                 | 31800           | 5               | 59, 8                    | M     |
| 1588           | 313 | 80/11/08                  | 0157:45                  | 0158:40                 | 180             | 157                 | 7200            | 5               | 59, 10                   |       |
| 1589           | 313 | 80/11/08                  | 0457:30                  | 0503:00                 | 685             | 171                 | 50005           | 2               | 59, 11                   |       |
| 1590           | 313 | 80/11/08                  | 1121:20                  | 1121:40                 | 40              | 302                 | 2480            | 5               | 59, 12                   |       |
| 1591           | 313 | 80/11/08                  | 1123:30                  | 1125:10                 | 140             | 1283                | 10080           | 5               | 59, 12                   | M     |
| 1592           | 313 | 80/11/08                  | 1438:40                  | 1440:20                 | 180             | 103                 | 540             | 2               | 59, 14                   |       |
| 1593           | 313 | 80/11/08                  | 1447:55                  | 1452:15                 | 360             | 2460                | 78840           | 10              | 59, 15                   | M, ES |
| 1594           | 313 | 80/11/08                  | 1536:30                  | 1537:00                 | 75              | 73                  |                 | 2               |                          |       |
| 1595           | 313 | 80/11/08                  | 1540:45                  | 1541:00                 | 55              | 132                 | 495             | 2               | 59, 16                   |       |
| 1596           | 313 | 80/11/08                  | 1617:25                  | 1619:25                 | 245             | 125                 | 3430            | 2               | 60, 1                    |       |
| 1597           | 313 | 80/11/08                  | 1727:15                  | 1728:45                 | 205             | 305                 | 7790            | 5               | 60, 2                    |       |
| 1598           | 313 | 80/11/08                  | 2051:00                  | 2052:30                 | 310             | 124                 | 4340            | 2               | 60, 3                    |       |
| 1599           | 313 | 80/11/08                  | 2110:15                  | 2113:00                 | 300             | 194                 | 6000            | 2               | 60, 4                    | M     |
| 1600           | 313 | 80/11/08                  | 2116:15                  | 2116:45                 | 55              | 379                 | 935             | 5               | 60, 4                    | M, EN |
| 1601           | 313 | 80/11/08                  | 2330:20                  | 2330:25                 | 185             | 97                  |                 | 2               |                          |       |
| 1602           | 314 | 80/11/09                  | 0135:35                  | 0136:35                 | 115             | 100                 | 848             | 2               |                          |       |
| 1603           | 314 | 80/11/09                  | 0430:30                  | 0430:30                 | 75              | 95                  |                 | 2               |                          | SA    |
| 1604           | 314 | 80/11/09                  | 0459:00                  | 0459:15                 | 60              | 100                 | 13187           | 2               |                          |       |
| 1605           | 314 | 80/11/09                  | 0632:35                  | 0633:00                 | 50              | 67                  |                 | 2               |                          |       |
| 1606           | 314 | 80/11/09                  | 0635:25                  | 0635:50                 | 55              | 65                  |                 | 2               |                          |       |
| 1607           | 314 | 80/11/09                  | 0817:45                  | 0818:20                 | 50              | 80                  |                 | 2               |                          |       |
| 1608           | 314 | 80/11/09                  | 0819:40                  | 0820:10                 | 110             | 99                  |                 | 2               |                          |       |
| 1609           | 314 | 80/11/09                  | 1132:10                  | 1134:05                 | 190             | 128                 | 3040            | 5               | 60, 5                    |       |
| 1610           | 314 | 80/11/09                  | 1403:30                  | 1403:55                 | 60              | 80                  |                 | 2               |                          | EN    |
| 1611           | 314 | 80/11/09                  | 1622:20                  | 1622:30                 | 30              | 78                  | 265             | 2               |                          |       |
| 1612           | 314 | 80/11/09                  | 1624:50                  | 1625:00                 | 30              | 90                  |                 | 2               |                          |       |
| 1613           | 314 | 80/11/09                  | 1702:50                  | 1703:10                 | 55              | 68                  |                 | 2               |                          |       |
| 1614           | 314 | 80/11/09                  | 1713:45                  | 1715:00                 | 140             | 146                 | 4060            | 2               | 60, 6                    |       |
| 1615           | 314 | 80/11/09                  | 1758:25                  | 1758:40                 | 35              | 672                 | 2555            | 5               | 60, 7                    |       |
| 1616           | 314 | 80/11/09                  | 1759:45                  | 1759:55                 | 25              | 456                 | 550             | 5               | 60, 7                    |       |
| 1617           | 314 | 80/11/09                  | 1911:05                  | 1912:05                 | 120             | 222                 | 6840            | 2               | 60, 8                    |       |
| 1618           | 314 | 80/11/09                  | 1915:05                  | 1921:10                 | 560             | 111                 | 6720            | 2               | 60, 9                    |       |
| 1619           | 314 | 80/11/09                  | 1928:00                  | 1928:55                 | 95              | 130                 | 1045            | 2               | 60, 9                    |       |
| 1620           | 314 | 80/11/09                  | 2032:25                  | 2033:25                 | 150             | 63                  | 404             | 2               |                          |       |
| 1621           | 314 | 80/11/09                  | 2052:50                  | 2053:25                 | 65              | 63                  |                 | 2               |                          |       |
| 1622           | 314 | 80/11/09                  | 2054:45                  | 2055:00                 | 50              | 87                  |                 | 2               |                          |       |
| 1623           | 314 | 80/11/09                  | 2216:20                  | 2217:00                 | 145             | 89                  |                 | 2               |                          |       |
| 1624           | 315 | 80/11/10                  | 0258:45                  | 0259:15                 | 280             | 1359                | 41440           | 5               | 60, 10                   | M     |
| 1625           | 315 | 80/11/10                  | 0426:35                  | 0426:35                 | 100             | 87                  |                 | 2               |                          | SA    |
| 1626           | 315 | 80/11/10                  | 0438:20                  | 0440:00                 | 190             | 73                  |                 | 2               |                          |       |
| 1627           | 315 | 80/11/10                  | 0447:05                  | 0447:35                 | 80              | 61                  | 361             | 2               |                          |       |
| 1628           | 315 | 80/11/10                  | 0804:10                  | 0808:10                 | 460             | 341                 | 47840           | 5               | 60, 12                   |       |
| 1629           | 315 | 80/11/10                  | 0929:55                  | 0935:00                 | 435             | 97                  | 20445           | 2               | 60, 13                   |       |
| 1630           | 315 | 80/11/10                  | 1300:35                  | 1301:25                 | 115             | 92                  |                 | 2               |                          |       |
| 1631           | 315 | 80/11/10                  | 1606:55                  | 1611:50                 | 660             | 783                 | 62040           | 5               | 60, 14                   | M     |
| 1632           | 315 | 80/11/10                  | 1835:20                  | 1835:30                 | 30              | 129                 | 390             | 2               | 60, 15                   |       |
| 1633           | 315 | 80/11/10                  | 2150:10                  | 2150:45                 | 65              | 226                 | 1820            | 5               | 60, 16                   |       |
| 1634           | 315 | 80/11/10                  | 2151:20                  | 2157:50                 | 570             | 132                 | 13110           | 2               | 60, 16                   |       |
| 1635           | 315 | 80/11/10                  | 2351:55                  | 2352:25                 | 60              | 102                 | 1080            | 2               | 61, 1                    |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 1636           | 316 | 80/11/11                  | 0625:30                  | 0627:15                 | 320             | 526                 | 54080           | 5               | 61, 2                    |           |
| 1637           | 316 | 80/11/11                  | 0815:10                  | 0815:40                 | 95              | 326                 | 3800            | 5               | 61, 3                    | M         |
| 1638           | 316 | 80/11/11                  | 0922:30                  | 0924:15                 | 245             | 158                 | 10486           | 2               | 61, 4                    | SA        |
| 1639           | 316 | 80/11/11                  | 0941:00                  | 0941:35                 | 50              | 92                  |                 | 2               |                          |           |
| 1640           | 316 | 80/11/11                  | 1212:30                  | 1213:10                 | 90              | 70                  |                 | 2               |                          |           |
| 1641           | 316 | 80/11/11                  | 1439:20                  | 1440:50                 | 185             | 143                 | 6845            | 2               | 61, 5                    | M, EN     |
| 1642           | 316 | 80/11/11                  | 1518:50                  | 1519:40                 | 300             | 1791                | 72300           | 5               | 61, 6                    | M         |
| 1643           | 316 | 80/11/11                  | 1552:10                  | 1552:10                 | 440             | 202                 | 13603           | 2               | 61, 8                    | SA        |
| 1644           | 316 | 80/11/11                  | 1711:05                  | 1712:40                 | 250             | 88                  | 52500           | 2               | 61, 9                    |           |
| 1645           | 316 | 80/11/11                  | 1722:55                  | 1724:20                 | 310             | 3694                | 1.07E+05        | 10              | 61, 10                   | M         |
| 1646           | 316 | 80/11/11                  | 1737:30                  | 1742:30                 | 950             | 4382                | 9.48E+05        | 15              | 61, 10                   | EN        |
| 1647           | 316 | 80/11/11                  | 1908:10                  | 1909:00                 | 225             | 125                 | 8550            | 2               | 61, 11                   |           |
| 1648           | 316 | 80/11/11                  | 2016:00                  | 2016:05                 | 10              | 84                  |                 | 2               |                          |           |
| 1649           | 316 | 80/11/11                  | 2041:30                  | 2041:50                 | 40              | 112                 | 280             | 5               | 61, 12                   |           |
| 1650           | 316 | 80/11/11                  | 2042:25                  | 2045:25                 | 420             | 429                 | 24360           | 2               | 61, 12                   |           |
| 1651           | 316 | 80/11/11                  | 2053:00                  | 2054:35                 | 820             | 894                 | 2.67E+05        | 5               | 61, 12                   | M, EN     |
| 1652           | 316 | 80/11/11                  | 2339:35                  | 2341:00                 | 545             | 388                 | 19075           | 5               | 61, 13                   |           |
| 1653           | 316 | 80/11/11                  | 2352:20                  | 2353:25                 | 115             | 82                  |                 | 2               |                          |           |
| 1654           | 317 | 80/11/12                  | 0002:50                  | 0003:40                 | 155             | 200                 | 4030            | 2               | 61, 13                   |           |
| 1655           | 317 | 80/11/12                  | 0236:00                  | 0236:25                 | 170             | 120                 | 3400            | 2               | 61, 14                   | SA        |
| 1656           | 317 | 80/11/12                  | 0242:55                  | 0249:30                 | 965             | 968                 | 1.05E+05        | 5               | 61, 14                   | M         |
| 1657           | 317 | 80/11/12                  | 0300:10                  | 0300:35                 | 230             | 161                 | 460             | 5               | 61, 14                   |           |
| 1658           | 317 | 80/11/12                  | 0311:00                  | 0312:25                 | 160             | 103                 | 2720            | 2               | 61, 14                   |           |
| 1659           | 317 | 80/11/12                  | 0317:45                  | 0318:05                 | 85              | 86                  |                 | 2               |                          |           |
| 1660           | 317 | 80/11/12                  | 0424:55                  | 0425:05                 | 45              | 79                  |                 | 2               |                          |           |
| 1661           | 317 | 80/11/12                  | 0445:50                  | 0452:00                 | 1045            | 50219               | 4.17E+06        | 15              | 61, 15                   | M, EN     |
| 4306           | 317 | 80/11/12                  | 0801:35                  | 0802:10                 | 65              | 66                  |                 | 2               |                          | I         |
| 1662           | 317 | 80/11/12                  | 0918:35                  | 0919:45                 | 165             | 96                  |                 | 2               |                          |           |
| 1663           | 317 | 80/11/12                  | 0943:40                  | 0945:35                 | 150             | 83                  |                 | 2               |                          |           |
| 1664           | 317 | 80/11/12                  | 1102:20                  | 1102:55                 | 195             | 198                 | 9417            | 2               | 61, 16                   |           |
| 1665           | 317 | 80/11/12                  | 1659:45                  | 1702:15                 | 390             | 653                 | 64740           | 5               | 62, 1                    |           |
| 4307           | 317 | 80/11/12                  | 1732:25                  | 1735:35                 | 372             | 66                  | 2421            | 2               | 144, 9                   | I         |
| 1666           | 317 | 80/11/12                  | 2003:00                  | 2003:40                 | 135             | 68                  |                 | 2               |                          |           |
| 1667           | 317 | 80/11/12                  | 2138:55                  | 2139:55                 | 125             | 80                  |                 | 2               |                          |           |
| 1668           | 317 | 80/11/12                  | 2151:50                  | 2152:45                 | 215             | 890                 | 34615           | 5               | 62, 2                    | M         |
| 1669           | 317 | 80/11/12                  | 2230:35                  | 2231:10                 | 50              | 99                  |                 | 2               |                          |           |
| 1670           | 317 | 80/11/12                  | 2334:10                  | 2344:25                 | 755             | 155                 | 9815            | 2               | 62, 4                    |           |
| 1671           | 317 | 80/11/12                  | 2351:20                  | 2355:55                 | 795             | 102                 | 23055           | 2               | 62, 4                    |           |
| 1672           | 318 | 80/11/13                  | 0007:10                  | 0008:20                 | 305             | 95                  | 3660            | 2               | 62, 4                    |           |
| 1673           | 318 | 80/11/13                  | 0049:15                  | 0057:00                 | 1750            | 6915                | 9.45E+05        | 10              | 62, 5                    |           |
| 1674           | 318 | 80/11/13                  | 0257:10                  | 0257:25                 | 50              | 86                  |                 | 2               |                          |           |
| 1675           | 318 | 80/11/13                  | 0301:30                  | 0314:30                 | 1360            | 234                 | 57120           | 2               | 62, 6                    |           |
| 1676           | 318 | 80/11/13                  | 0937:35                  | 0946:40                 | 545             | 1593                | 2.73E+05        | 10              | 62, 7                    | M, EN     |
| 1677           | 318 | 80/11/13                  | 1912:00                  | 1916:40                 | 620             | 483                 | 1.34E+05        | 2               | 62, 8                    | EN        |
| 1678           | 318 | 80/11/13                  | 2031:05                  | 2031:35                 | 120             | 88                  |                 | 2               |                          |           |
| 1679           | 319 | 80/11/14                  | 0102:35                  | 0104:50                 | 195             | 76                  |                 | 2               |                          |           |
| 1680           | 319 | 80/11/14                  | 0108:05                  | 0108:50                 | 130             | 60                  |                 | 2               |                          |           |
| 1681           | 319 | 80/11/14                  | 0110:35                  | 0117:30                 | 515             | 93                  | 2060            | 2               | 62, 9                    |           |
| 1682           | 319 | 80/11/14                  | 0130:25                  | 0131:25                 | 140             | 71                  |                 | 2               |                          |           |
| 1683           | 319 | 80/11/14                  | 0248:30                  | 0249:20                 | 195             | 61                  |                 | 2               |                          |           |
| 1684           | 319 | 80/11/14                  | 0256:50                  | 0258:40                 | 180             | 209                 | 6840            | 2               | 62, 10                   |           |
| 1685           | 319 | 80/11/14                  | 0454:40                  | 0455:40                 | 145             | 794                 | 27985           | 5               | 62, 11                   | M         |
| 1686           | 319 | 80/11/14                  | 0731:00                  | 0748:20                 | 7945            | 396                 | 8.10E+05        | 5               | 202, 1                   | M, SN, EN |
| 1687           | 319 | 80/11/14                  | 1252:30                  | 1253:30                 | 195             | 109                 | 2730            | 2               | 62, 12                   | M         |
| 1688           | 319 | 80/11/14                  | 1428:10                  | 1428:40                 | 40              | 78                  |                 | 2               |                          |           |
| 1689           | 319 | 80/11/14                  | 1516:50                  | 1517:30                 | 80              | 90                  |                 | 2               |                          |           |
| 1690           | 319 | 80/11/14                  | 1539:35                  | 1539:50                 | 775             | 1499                | 1.81E+05        | 5               | 62, 13                   | M         |
| 1691           | 319 | 80/11/14                  | 1557:30                  | 1558:20                 | 180             | 99                  |                 | 2               |                          |           |
| 1692           | 319 | 80/11/14                  | 1601:50                  | 1602:20                 | 100             | 120                 | 8000            | 2               | 62, 13                   |           |
| 1693           | 319 | 80/11/14                  | 1827:00                  | 1830:25                 | 1140            | 716                 | 1.35E+05        | 5               | 62, 14                   |           |
| 1694           | 319 | 80/11/14                  | 1847:35                  | 1849:40                 | 400             | 817                 | 38400           | 5               | 62, 14                   |           |
| 1695           | 319 | 80/11/14                  | 2211:45                  | 2216:05                 | 485             | 131                 | 15035           | 2               | 62, 15                   |           |
| 1696           | 319 | 80/11/14                  | 2350:30                  | 2359:10                 | 930             | 3520                | 1.17E+06        | 5               | 62, 16                   | M         |
| 1697           | 320 | 80/11/15                  | 0100:55                  | 0101:10                 | 45              | 77                  |                 | 2               |                          |           |
| 1698           | 320 | 80/11/15                  | 0559:30                  | 0559:55                 | 60              | 150                 | 1140            | 2               | 63, 1                    |           |
| 1699           | 320 | 80/11/15                  | 0755:10                  | 0755:55                 | 70              | 143                 | 1120            | 2               | 63, 2                    |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1700           | 320 | 80/11/15                  | 1335:50                  | 1337:10                 | 330             | 134                 | 7920            | 2               | 63, 3                    |       |
| 1701           | 320 | 80/11/15                  | 1412:45                  | 1414:40                 | 760             | 109                 | 9120            | 2               | 63, 4                    |       |
| 1702           | 320 | 80/11/15                  | 1516:15                  | 1543:30                 | 2860            | 12939               | 5.65E+06        | 10              | 63, 5                    | M     |
| 1703           | 320 | 80/11/15                  | 1715:45                  | 1716:20                 | 100             | 123                 | 1300            | 2               | 63, 6                    |       |
| 1704           | 320 | 80/11/15                  | 1950:10                  | 1959:45                 | 1475            | 1593                | 3.05E+05        | 5               | 63, 7                    | M     |
| 1705           | 320 | 80/11/15                  | 2133:15                  | 2133:45                 | 65              | 120                 | 1495            | 5               | 63, 9                    |       |
| 1706           | 320 | 80/11/15                  | 2145:40                  | 2146:25                 | 220             | 1219                | 37400           | 5               | 63, 10                   |       |
| 1707           | 320 | 80/11/15                  | 2322:10                  | 2323:40                 | 105             | 69                  |                 | 2               |                          |       |
| 1708           | 321 | 80/11/16                  | 0301:05                  | 0301:55                 | 155             | 1115                | 41540           | 5               | 63, 11                   | M     |
| 1709           | 321 | 80/11/16                  | 0311:00                  | 0311:45                 | 110             | 182                 | 3080            | 5               | 63, 11                   |       |
| 1710           | 321 | 80/11/16                  | 0901:15                  | 0904:25                 | 720             | 3909                | 3.90E+05        | 10              | 63, 12                   | M     |
| 1711           | 321 | 80/11/16                  | 1048:20                  | 1048:45                 | 80              | 135                 | 2320            | 2               | 63, 14                   |       |
| 1712           | 321 | 80/11/16                  | 1330:45                  | 1331:00                 | 70              | 78                  |                 | 2               |                          |       |
| 1713           | 321 | 80/11/16                  | 1819:00                  | 1819:10                 | 80              | 132                 | 1680            | 2               | 63, 15                   |       |
| 1714           | 321 | 80/11/16                  | 1907:45                  | 1908:20                 | 70              | 75                  |                 | 2               |                          |       |
| 1715           | 321 | 80/11/16                  | 1953:40                  | 1955:20                 | 120             | 70                  |                 | 2               | 63, 16                   |       |
| 1716           | 321 | 80/11/16                  | 1955:50                  | 1957:35                 | 145             | 69                  |                 | 2               | 63, 16                   |       |
| 1717           | 321 | 80/11/16                  | 1959:00                  | 1959:20                 | 35              | 101                 | 525             | 2               | 63, 16                   |       |
| 1718           | 321 | 80/11/16                  | 2000:35                  | 2001:15                 | 170             | 622                 | 12920           | 5               | 63, 16                   |       |
| 1719           | 321 | 80/11/16                  | 2005:45                  | 2006:55                 | 230             | 169                 | 6900            | 2               | 63, 16                   |       |
| 1720           | 321 | 80/11/16                  | 2016:35                  | 2022:20                 | 960             | 1572                | 2.28E+05        | 10              | 63, 16                   |       |
| 1721           | 321 | 80/11/16                  | 2147:35                  | 2148:40                 | 175             | 66                  |                 | 2               |                          |       |
| 1722           | 322 | 80/11/17                  | 0542:10                  | 0546:25                 | 500             | 160                 | 15332           | 2               | 64, 1                    |       |
| 1723           | 322 | 80/11/17                  | 0917:35                  | 0921:35                 | 380             | 131                 | 7600            | 2               | 64, 2                    |       |
| 1724           | 322 | 80/11/17                  | 1333:50                  | 1337:50                 | 1170            | 3110                | 7.21E+05        | 5               | 64, 3                    | M     |
| 1725           | 322 | 80/11/17                  | 1544:10                  | 1546:25                 | 200             | 207                 | 6720            | 5               | 64, 4                    |       |
| 1726           | 322 | 80/11/17                  | 1548:15                  | 1548:45                 | 66              | 110                 | 799             | 2               | 64, 4                    |       |
| 1727           | 322 | 80/11/17                  | 2023:25                  | 2024:30                 | 119             | 203                 | 4882            | 2               | 64, 5                    |       |
| 1728           | 323 | 80/11/18                  | 0418:45                  | 0420:10                 | 115             | 92                  |                 | 2               |                          |       |
| 1729           | 323 | 80/11/18                  | 0544:15                  | 0545:50                 | 165             | 1002                | 26065           | 5               | 64, 6                    | M     |
| 1730           | 323 | 80/11/18                  | 0614:00                  | 0614:40                 | 110             | 72                  |                 | 2               |                          |       |
| 1731           | 323 | 80/11/18                  | 0716:15                  | 0718:20                 | 535             | 1445                | 55943           | 10              | 64, 8                    | M     |
| 5721           | 323 | 80/11/18                  | 0904:24                  | 0905:38                 | 133             | 79                  |                 | 2               |                          | I     |
| 1732           | 323 | 80/11/18                  | 1003:15                  | 1003:50                 | 125             | 114                 | 623             | 2               |                          | SN,ES |
| 1733           | 323 | 80/11/18                  | 1037:50                  | 1039:00                 | 135             | 99                  |                 | 2               |                          |       |
| 1734           | 323 | 80/11/18                  | 1140:55                  | 1141:15                 | 180             | 289                 | 9100            | 5               | 64, 10                   | M     |
| 1735           | 323 | 80/11/18                  | 1145:20                  | 1145:35                 | 55              | 76                  |                 | 2               |                          |       |
| 1736           | 323 | 80/11/18                  | 1416:55                  | 1417:25                 | 56              | 140                 | 585             | 2               | 64, 11                   | M     |
| 1737           | 323 | 80/11/18                  | 1450:20                  | 1452:05                 | 590             | 6890                | 3.42E+05        | 10              | 64, 12                   | M     |
| 1738           | 323 | 80/11/18                  | 1534:30                  | 1535:05                 | 100             | 71                  |                 | 2               |                          |       |
| 1739           | 323 | 80/11/18                  | 1652:45                  | 1653:05                 | 90              | 95                  |                 | 2               |                          |       |
| 1740           | 323 | 80/11/18                  | 2213:35                  | 2214:25                 | 90              | 71                  |                 | 2               |                          |       |
| 1741           | 324 | 80/11/19                  | 0029:35                  | 0030:15                 | 102             | 292                 | 5215            | 5               | 64, 14                   |       |
| 1742           | 324 | 80/11/19                  | 0241:40                  | 0242:00                 | 45              | 83                  |                 | 2               |                          |       |
| 1743           | 324 | 80/11/19                  | 0434:25                  | 0439:05                 | 300             | 321                 | 33035           | 2               | 64, 15                   | EN    |
| 1744           | 324 | 80/11/19                  | 0533:00                  | 0542:05                 | 1008            | 1480                | 2.80E+05        | 5               | 64, 16                   | M     |
| 1745           | 324 | 80/11/19                  | 0851:40                  | 0852:00                 | 50              | 95                  |                 | 2               |                          |       |
| 1746           | 324 | 80/11/19                  | 1236:15                  | 1237:15                 | 127             | 440                 | 14894           | 5               | 65, 1                    | M     |
| 1747           | 324 | 80/11/19                  | 1335:55                  | 1336:10                 | 26              | 150                 | 927             | 5               | 65, 2                    |       |
| 1748           | 324 | 80/11/19                  | 1336:30                  | 1336:50                 | 44              | 147                 | 1020            | 5               | 65, 2                    |       |
| 1749           | 324 | 80/11/19                  | 1447:50                  | 1448:05                 | 40              | 129                 | 927             | 2               | 65, 3                    |       |
| 1750           | 324 | 80/11/19                  | 1706:05                  | 1706:15                 | 34              | 121                 | 431             | 15              | 65, 4                    | NS    |
| 1751           | 324 | 80/11/19                  | 2122:15                  | 2122:50                 | 59              | 111                 | 887             | 2               | 65, 5                    |       |
| 1752           | 324 | 80/11/19                  | 2132:15                  | 2143:35                 | 1159            | 78                  | 11934           | 2               | 65, 6                    |       |
| 1753           | 324 | 80/11/19                  | 2202:40                  | 2203:00                 | 47              | 107                 | 682             | 2               | 65, 7                    |       |
| 1754           | 324 | 80/11/19                  | 2204:00                  | 2204:35                 | 195             | 78                  |                 | 2               | 65, 7                    |       |
| 1755           | 325 | 80/11/20                  | 0528:35                  | 0529:05                 | 61              | 145                 | 1751            | 2               | 65, 8                    |       |
| 1756           | 326 | 80/11/21                  | 0743:05                  | 0743:30                 | 134             | 2676                | 52056           | 5               | 65, 9                    | M     |
| 1757           | 327 | 80/11/22                  | 0529:35                  | 0532:55                 | 341             | 87                  | 2756            | 2               | 65, 10                   |       |
| 1758           | 327 | 80/11/22                  | 0541:45                  | 0543:55                 | 528             | 297                 | 36494           | 5               | 65, 10                   |       |
| 5730           | 327 | 80/11/22                  | 1528:50                  | 1529:01                 | 43              | 62                  |                 | 2               |                          | I     |
| 1759           | 328 | 80/11/23                  | 0209:35                  | 0209:45                 | 20              | 69                  |                 | 2               |                          |       |
| 1760           | 328 | 80/11/23                  | 1839:50                  | 1844:40                 | 623             | 183                 | 27754           | 2               | 65, 11                   | M,EN  |
| 1761           | 328 | 80/11/23                  | 2117:25                  | 2117:40                 | 72              | 137                 | 1422            | 2               | 65, 12                   |       |
| 1762           | 329 | 80/11/24                  | 0228:35                  | 0229:10                 | 80              | 80                  | 84              | 2               |                          |       |
| 1763           | 329 | 80/11/24                  | 0840:15                  | 0840:35                 | 45              | 71                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1764           | 329 | 80/11/24                  | 0843:00                  | 0843:30                 | 93              | 110                 | 1288            | 2               | 65, 13                   |       |
| 1765           | 329 | 80/11/24                  | 1345:05                  | 1348:20                 | 611             | 203                 | 21457           | 2               | 65, 14                   |       |
| 1766           | 329 | 80/11/24                  | 1433:35                  | 1434:00                 | 195             | 275                 | 7559            | 5               | 65, 15                   | M     |
| 1767           | 329 | 80/11/24                  | 1701:00                  | 1702:05                 | 168             | 123                 | 3177            | 2               | 66, 1                    |       |
| 1768           | 329 | 80/11/24                  | 1928:10                  | 1931:10                 | 1091            | 254                 | 37758           | 10              | 66, 2                    |       |
| 1769           | 329 | 80/11/24                  | 2251:55                  | 2252:10                 | 110             | 75                  |                 | 10              |                          |       |
| 1770           | 330 | 80/11/25                  | 0228:15                  | 0230:00                 | 165             | 95                  |                 | 2               |                          |       |
| 1771           | 330 | 80/11/25                  | 0649:40                  | 0650:10                 | 89              | 108                 | 995             | 2               | 66, 3                    |       |
| 1772           | 330 | 80/11/25                  | 0654:50                  | 0656:20                 | 158             | 205                 | 6086            | 5               | 66, 4                    |       |
| 1773           | 330 | 80/11/25                  | 0901:15                  | 0902:25                 | 149             | 113                 | 1650            | 2               | 66, 5                    |       |
| 1774           | 331 | 80/11/26                  | 0813:05                  | 0813:30                 | 45              | 79                  |                 | 2               |                          |       |
| 1775           | 331 | 80/11/26                  | 1036:15                  | 1036:25                 | 20              | 81                  |                 | 2               |                          |       |
| 1776           | 331 | 80/11/26                  | 1604:15                  | 1604:35                 | 125             | 80                  |                 | 2               |                          |       |
| 5731           | 332 | 80/11/27                  | 0232:52                  | 0233:10                 | 30              | 74                  |                 | 2               |                          | I     |
| 1777           | 332 | 80/11/27                  | 0951:30                  | 0952:15                 | 75              | 72                  |                 | 2               |                          |       |
| 1778           | 332 | 80/11/27                  | 1136:20                  | 1136:40                 | 54              | 143                 | 853             | 2               | 66, 6                    |       |
| 1779           | 333 | 80/11/28                  | 0147:30                  | 0147:50                 | 110             | 53                  |                 | 2               |                          |       |
| 1780           | 333 | 80/11/28                  | 0937:40                  | 0949:00                 | 3473            | 544                 | 1.97E+05        | 5               | 66, 7                    | EN    |
| 1781           | 333 | 80/11/28                  | 1330:00                  | 1330:55                 | 115             | 71                  |                 | 2               |                          |       |
| 1782           | 333 | 80/11/28                  | 1429:50                  | 1436:20                 | 1311            | 405                 | 1.18E+05        | 10              | 66, 8                    |       |
| 1783           | 334 | 80/11/29                  | 1440:20                  | 1440:55                 | 71              | 139                 | 1439            | 5               | 66, 9                    |       |
| 1784           | 335 | 80/11/30                  | 0630:30                  | 0631:00                 | 85              | 72                  |                 | 2               |                          |       |
| 1785           | 335 | 80/11/30                  | 1447:00                  | 1447:35                 | 92              | 112                 | 891             | 2               | 66, 10                   |       |
| 1786           | 335 | 80/11/30                  | 1512:05                  | 1513:00                 | 150             | 180                 | 10687           | 5               | 66, 11                   | EN    |
| 1787           | 336 | 80/12/01                  | 0009:25                  | 0011:35                 | 165             | 108                 | 2711            | 2               | 66, 12                   |       |
| 1788           | 336 | 80/12/01                  | 0625:05                  | 0626:00                 | 190             | 84                  |                 | 2               |                          |       |
| 1789           | 336 | 80/12/01                  | 1132:35                  | 1133:50                 | 215             | 77                  | 1448            | 2               | 66, 13                   |       |
| 1790           | 336 | 80/12/01                  | 1329:30                  | 1330:15                 | 155             | 76                  |                 | 2               |                          |       |
| 1791           | 336 | 80/12/01                  | 1929:30                  | 1930:50                 | 165             | 1313                | 20077           | 5               | 66, 14                   | M     |
| 1792           | 337 | 80/12/02                  | 0619:15                  | 0619:50                 | 128             | 139                 | 4566            | 2               | 66, 15                   |       |
| 1793           | 337 | 80/12/02                  | 0624:45                  | 0627:10                 | 310             | 184                 | 10269           | 2               | 66, 15                   |       |
| 1794           | 337 | 80/12/02                  | 0745:40                  | 0746:10                 | 40              | 316                 | 1862            | 5               | 66, 16                   |       |
| 1795           | 337 | 80/12/02                  | 0748:40                  | 0749:05                 | 35              | 594                 | 5067            | 10              | 66, 16                   |       |
| 1796           | 337 | 80/12/02                  | 1118:55                  | 1123:45                 | 1362            | 6489                | 1.23E+06        | 6               | 202, 2                   | M     |
| 1797           | 337 | 80/12/02                  | 1236:55                  | 1243:10                 | 938             | 814                 | 2.02E+05        | 5               | 67, 1                    | FS    |
| 1798           | 337 | 80/12/02                  | 1727:40                  | 1728:15                 | 80              | 99                  |                 | 2               |                          |       |
| 1799           | 337 | 80/12/02                  | 1920:30                  | 1921:40                 | 255             | 160                 | 5481            | 2               | 67, 2                    |       |
| 1800           | 337 | 80/12/02                  | 2354:45                  | 2358:00                 | 338             | 124                 | 6382            | 2               | 67, 3                    |       |
| 1801           | 338 | 80/12/03                  | 0022:55                  | 0023:35                 | 93              | 103                 | 1080            | 2               | 67, 4                    | EW    |
| 1802           | 338 | 80/12/03                  | 1058:05                  | 1058:15                 | 60              | 93                  |                 | 2               |                          | EW    |
| 1803           | 339 | 80/12/04                  | 0610:45                  | 0611:40                 | 145             | 99                  |                 | 2               |                          |       |
| 1804           | 339 | 80/12/04                  | 0614:35                  | 0615:10                 | 65              | 74                  |                 | 2               |                          |       |
| 1805           | 339 | 80/12/04                  | 1119:10                  | 1119:20                 | 70              | 127                 | 775             | 2               | 67, 5                    |       |
| 1806           | 339 | 80/12/04                  | 1228:40                  | 1229:25                 | 105             | 85                  |                 | 2               |                          |       |
| 1807           | 340 | 80/12/05                  | 0443:45                  | 0444:15                 | 129             | 575                 | 14852           | 5               | 67, 6                    |       |
| 1808           | 340 | 80/12/05                  | 1106:00                  | 1106:25                 | 60              | 78                  |                 | 2               |                          |       |
| 1809           | 340 | 80/12/05                  | 1126:30                  | 1126:50                 | 113             | 342                 | 4673            | 5               | 67, 7                    |       |
| 1810           | 340 | 80/12/05                  | 1131:50                  | 1132:10                 | 98              | 135                 | 1368            | 2               |                          |       |
| 5753           | 341 | 80/12/06                  | 1134:26                  | 1135:03                 | 61              | 89                  |                 | 2               |                          | I     |
| 1811           | 341 | 80/12/06                  | 1241:45                  | 1242:20                 | 75              | 72                  |                 | 2               |                          |       |
| 1812           | 341 | 80/12/06                  | 1310:55                  | 1311:25                 | 65              | 78                  |                 | 2               |                          |       |
| 1813           | 341 | 80/12/06                  | 1445:25                  | 1446:50                 | 177             | 133                 | 4203            | 5               | 67, 8                    | M     |
| 1814           | 341 | 80/12/06                  | 2150:15                  | 2151:10                 | 123             | 105                 | 1027            | 2               | 67, 9                    |       |
| 1815           | 341 | 80/12/06                  | 2158:25                  | 2159:00                 | 58              | 130                 | 1030            | 2               | 67, 10                   |       |
| 1816           | 341 | 80/12/06                  | 2216:30                  | 2217:00                 | 85              | 80                  |                 | 2               |                          |       |
| 1817           | 341 | 80/12/06                  | 2338:40                  | 2338:45                 | 25              | 97                  |                 | 2               |                          |       |
| 1818           | 342 | 80/12/07                  | 0149:55                  | 0150:25                 | 100             | 85                  |                 | 2               |                          |       |
| 1819           | 343 | 80/12/08                  | 0721:30                  | 0722:10                 | 100             | 73                  |                 | 2               |                          |       |
| 6754           | 343 | 80/12/08                  | 2036:07                  | 2036:29                 | 61              | 83                  |                 | 2               |                          |       |
| 1820           | 344 | 80/12/09                  | 0124:50                  | 0128:10                 | 332             | 78                  | 1422            | 2               | 67, 11                   |       |
| 1821           | 344 | 80/12/09                  | 2142:05                  | 2142:35                 | 45              | 91                  |                 | 2               |                          |       |
| 1822           | 345 | 80/12/10                  | 0311:05                  | 0312:35                 | 120             | 137                 | 2904            | 2               | 67, 12                   |       |
| 1823           | 345 | 80/12/10                  | 0914:10                  | 0919:25                 | 619             | 95                  | 7452            | 2               | 67, 13                   |       |
| 1824           | 345 | 80/12/10                  | 0940:15                  | 0941:10                 | 185             | 81                  |                 | 2               |                          |       |
| 1825           | 345 | 80/12/10                  | 2006:10                  | 2006:50                 | 82              | 115                 | 1374            | 2               | 67, 14                   |       |
| 1826           | 345 | 80/12/10                  | 2144:05                  | 2146:20                 | 208             | 102                 | 2096            | 2               | 67, 15                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 1827           | 345 | 80/12/10                  | 2148:30                  | 2150:15                 | 142             | 104                 | 1469            | 2               | 67, 15                   |           |
| 1828           | 346 | 80/12/11                  | 0710:30                  | 0711:25                 | 122             | 111                 | 2221            | 2               | 67, 16                   |           |
| 1829           | 346 | 80/12/11                  | 0718:30                  | 0719:05                 | 71              | 107                 | 964             | 2               | 67, 16                   |           |
| 1830           | 346 | 80/12/11                  | 0722:20                  | 0722:40                 | 35              | 77                  |                 | 2               |                          |           |
| 1831           | 346 | 80/12/11                  | 1247:50                  | 1248:50                 | 125             | 72                  |                 | 2               |                          |           |
| 1832           | 346 | 80/12/11                  | 1507:35                  | 1508:05                 | 65              | 84                  |                 | 2               |                          |           |
| 1833           | 347 | 80/12/12                  | 1955:30                  | 1957:15                 | 140             | 99                  |                 | 2               |                          |           |
| 1834           | 347 | 80/12/12                  | 2121:50                  | 2123:50                 | 180             | 51                  |                 | 2               |                          |           |
| 1835           | 348 | 80/12/13                  | 0305:15                  | 0306:20                 | 195             | 75                  |                 | 2               |                          |           |
| 1836           | 348 | 80/12/13                  | 0543:30                  | 0544:05                 | 80              | 86                  |                 | 2               |                          |           |
| 1837           | 349 | 80/12/14                  | 1053:00                  | 1053:45                 | 65              | 80                  |                 | 2               |                          |           |
| 1838           | 349 | 80/12/14                  | 1408:05                  | 1408:25                 | 45              | 83                  |                 | 2               |                          |           |
| 1839           | 349 | 80/12/14                  | 1450:10                  | 1450:40                 | 70              | 73                  |                 | 2               |                          |           |
| 1840           | 349 | 80/12/14                  | 1452:35                  | 1454:55                 | 204             | 118                 | 3027            | 2               | 68, 1                    |           |
| 1841           | 349 | 80/12/14                  | 1504:35                  | 1505:05                 | 96              | 179                 | 3396            | 2               | 68, 1                    | M         |
| 1842           | 350 | 80/12/15                  | 0051:05                  | 0052:20                 | 135             | 116                 | 3548            | 2               | 68, 2                    |           |
| 1843           | 350 | 80/12/15                  | 0740:05                  | 0740:25                 | 35              | 85                  |                 | 2               |                          |           |
| 1844           | 350 | 80/12/15                  | 1817:40                  | 1817:45                 | 18              | 133                 | 367             | 5               | 68, 3                    |           |
| 1845           | 350 | 80/12/15                  | 2135:55                  | 2136:25                 | 68              | 202                 | 1668            | 5               | 68, 4                    |           |
| 1846           | 351 | 80/12/16                  | 0101:05                  | 0101:25                 | 143             | 765                 | 20890           | 5               | 68, 5                    | M         |
| 1847           | 351 | 80/12/16                  | 0352:40                  | 0353:00                 | 50              | 81                  |                 | 2               |                          |           |
| 1848           | 351 | 80/12/16                  | 0906:30                  | 0907:40                 | 285             | 213                 | 14856           | 5               | 68, 6                    |           |
| 1849           | 351 | 80/12/16                  | 0954:35                  | 0956:25                 | 363             | 768                 | 1.11E+05        | 5               | 68, 7                    | M, SN, ES |
| 1850           | 351 | 80/12/16                  | 1451:45                  | 1453:30                 | 379             | 3958                | 1.00E+05        | 10              | 68, 8                    | M, ES     |
| 1851           | 352 | 80/12/17                  | 0422:50                  | 0423:35                 | 91              | 324                 | 3865            | 5               | 68, 9                    | M         |
| 1852           | 352 | 80/12/17                  | 0845:05                  | 0845:45                 | 118             | 3601                | 43674           | 15              | 68, 10                   | M         |
| 1853           | 352 | 80/12/17                  | 1132:20                  | 1132:55                 | 55              | 166                 | 1114            | 5               | 68, 12                   | M         |
| 1854           | 352 | 80/12/17                  | 1206:50                  | 1208:30                 | 670             | 2365                | 2.05E+05        | 5               | 68, 13                   | M, SA     |
| 1855           | 352 | 80/12/17                  | 2255:10                  | 2257:35                 | 242             | 404                 | 24271           | 5               | 68, 14                   |           |
| 1856           | 353 | 80/12/18                  | 0147:15                  | 0147:40                 | 169             | 217                 | 7289            | 2               | 68, 15                   | SN        |
| 1857           | 353 | 80/12/18                  | 1921:10                  | 1921:20                 | 41              | 6038                | 27052           | 15              | 68, 16                   |           |
| 1858           | 353 | 80/12/18                  | 1933:55                  | 1934:05                 | 35              | 98                  |                 | 2               |                          |           |
| 1859           | 354 | 80/12/19                  | 1608:05                  | 1627:15                 | 1161            | 128                 | 32516           | 5               | 69, 1                    | ES        |
| 1860           | 354 | 80/12/19                  | 2012:15                  | 2012:40                 | 138             | 288                 | 11757           | 5               | 69, 2                    |           |
| 8586           | 355 | 80/12/20                  | 1830:49                  | 1830:54                 | 12              | 87                  | 813             | 15              | 262, 7                   | NS        |
| 1861           | 356 | 80/12/21                  | 0359:50                  | 0400:30                 | 127             | 113                 | 2506            | 2               | 69, 4                    |           |
| 1862           | 356 | 80/12/21                  | 2133:05                  | 2133:15                 | 37              | 108                 | 764             | 2               | 69, 5                    |           |
| 1863           | 357 | 80/12/22                  | 0204:35                  | 0205:50                 | 80              | 71                  |                 | 2               |                          |           |
| 1864           | 357 | 80/12/22                  | 1501:05                  | 1501:20                 | 64              | 108                 | 1184            | 2               |                          |           |
| 1865           | 358 | 80/12/23                  | 2114:10                  | 2115:50                 | 262             | 1600                | 72137           | 10              | 69, 6                    |           |
| 1866           | 359 | 80/12/24                  | 1002:25                  | 1002:40                 | 30              | 75                  |                 | 2               |                          |           |
| 1867           | 359 | 80/12/24                  | 1054:30                  | 1054:55                 | 45              | 70                  |                 | 2               |                          |           |
| 1868           | 359 | 80/12/24                  | 2230:40                  | 2230:45                 | 40              | 95                  |                 | 2               |                          |           |
| 1869           | 360 | 80/12/25                  | 0125:55                  | 0128:00                 | 571             | 165                 | 20124           | 10              | 69, 7                    |           |
| 1870           | 360 | 80/12/25                  | 0649:00                  | 0649:35                 | 70              | 94                  |                 | 2               |                          |           |
| 1871           | 360 | 80/12/25                  | 1912:45                  | 1913:25                 | 145             | 119                 | 2339            | 2               | 69, 8                    |           |
| 1872           | 360 | 80/12/25                  | 2031:00                  | 2031:30                 | 60              | 81                  |                 | 2               |                          |           |
| 1873           | 360 | 80/12/25                  | 2051:35                  | 2052:00                 | 53              | 130                 | 1646            | 2               | 69, 9                    |           |
| 1874           | 361 | 80/12/26                  | 0032:25                  | 0033:40                 | 130             | 72                  |                 | 2               |                          |           |
| 1875           | 361 | 80/12/26                  | 0330:15                  | 0330:30                 | 22              | 109                 | 205             | 2               | 69, 10                   |           |
| 1876           | 361 | 80/12/26                  | 0623:30                  | 0624:05                 | 79              | 184                 | 3360            | 5               | 69, 11                   |           |
| 1877           | 361 | 80/12/26                  | 0815:30                  | 0815:40                 | 20              | 70                  |                 | 2               |                          |           |
| 1878           | 362 | 80/12/27                  | 0822:40                  | 0822:55                 | 30              | 80                  |                 | 2               |                          |           |
| 1879           | 362 | 80/12/27                  | 2241:15                  | 2241:40                 | 44              | 167                 | 1351            | 5               | 69, 15                   |           |
| 1880           | 362 | 80/12/27                  | 2329:50                  | 2330:40                 | 180             | 99                  |                 | 5               |                          |           |
| 4261           | 363 | 80/12/28                  | 0250:40                  | 0250:45                 | 12              | 125                 | 570             | 4               | 143, 7                   | I         |
| 1881           | 363 | 80/12/28                  | 0451:30                  | 0452:35                 | 145             | 74                  |                 | 2               |                          |           |
| 1882           | 363 | 80/12/28                  | 1129:05                  | 1130:45                 | 115             | 121                 | 1519            | 2               | 69, 16                   |           |
| 1883           | 363 | 80/12/28                  | 1431:25                  | 1431:40                 | 29              | 110                 | 415             | 2               | 70, 1                    |           |
| 1884           | 363 | 80/12/28                  | 1712:00                  | 1712:45                 | 124             | 209                 | 4578            | 5               | 70, 2                    |           |
| 1885           | 363 | 80/12/28                  | 1757:20                  | 1757:55                 | 45              | 110                 | 739             | 2               | 70, 3                    |           |
| 1886           | 363 | 80/12/28                  | 1903:55                  | 1906:45                 | 337             | 1889                | 86541           | 10              | 70, 4                    |           |
| 1887           | 363 | 80/12/28                  | 1919:45                  | 1920:10                 | 49              | 208                 | 1398            | 5               | 70, 4                    |           |
| 1888           | 363 | 80/12/28                  | 2145:10                  | 2145:20                 | 30              | 74                  |                 | 2               |                          |           |
| 1889           | 363 | 80/12/28                  | 2229:25                  | 2229:40                 | 45              | 82                  |                 | 2               |                          |           |
| 1890           | 363 | 80/12/28                  | 2243:40                  | 2243:50                 | 30              | 65                  |                 | 2               |                          |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1891           | 363 | 80/12/28                  | 2339:00                  | 2340:00                 | 219             | 167                 | 5003            | 5               | 70, 5                    |       |
| 1892           | 363 | 80/12/28                  | 2355:30                  | 2355:50                 | 85              | 277                 | 2647            | 5               | 70, 6                    |       |
| 1893           | 364 | 80/12/29                  | 0105:45                  | 0106:40                 | 420             | 225                 | 34304           | 10              | 70, 7                    |       |
| 1894           | 364 | 80/12/29                  | 0132:05                  | 0132:15                 | 20              | 76                  |                 | 2               |                          |       |
| 1895           | 364 | 80/12/29                  | 0424:10                  | 0424:55                 | 135             | 778                 | 12088           | 10              | 70, 8                    |       |
| 1896           | 364 | 80/12/29                  | 1031:40                  | 1033:20                 | 107             | 305                 | 6075            | 5               | 70, 9                    | ES    |
| 1897           | 364 | 80/12/29                  | 1125:00                  | 1127:30                 | 336             | 202                 | 12794           | 2               | 70, 10                   |       |
| 1898           | 364 | 80/12/29                  | 1305:30                  | 1305:40                 | 57              | 357                 | 5293            | 5               | 70, 11                   |       |
| 1899           | 364 | 80/12/29                  | 1425:50                  | 1426:40                 | 130             | 86                  |                 | 2               |                          |       |
| 1900           | 364 | 80/12/29                  | 1429:50                  | 1430:05                 | 205             | 206                 | 3885            | 5               | 70, 12                   |       |
| 1901           | 364 | 80/12/29                  | 2032:05                  | 2032:35                 | 90              | 72                  |                 | 2               |                          |       |
| 5779           | 365 | 80/12/30                  | 1917:47                  | 1917:58                 | 40              | 81                  |                 | 2               |                          | I     |

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1902           | 1   | 81/01/01                  | 0051:50                  | 0052:55                 | 105             | 83                  |                 | 5               |                          |       |
| 1903           | 2   | 81/01/02                  | 0038:55                  | 0038:55                 | 70              | 94                  |                 | 10              |                          | SA    |
| 1904           | 3   | 81/01/03                  | 0036:45                  | 0038:20                 | 120             | 95                  |                 | 2               |                          |       |
| 1905           | 3   | 81/01/03                  | 0252:10                  | 0253:15                 | 130             | 87                  |                 | 2               |                          |       |
| 1906           | 3   | 81/01/03                  | 1550:30                  | 1551:15                 | 150             | 92                  |                 | 2               |                          |       |
| 1907           | 3   | 81/01/03                  | 1838:20                  | 1838:40                 | 65              | 62                  |                 | 2               |                          |       |
| 1908           | 4   | 81/01/04                  | 0922:40                  | 0923:30                 | 88              | 163                 | 1436            | 2               | 70, 13                   |       |
| 1909           | 5   | 81/01/05                  | 0024:55                  | 0024:55                 | 70              | 137                 | 268             | 10              | 70, 14                   | SA,EW |
| 1910           | 5   | 81/01/05                  | 1619:10                  | 1619:20                 | 539             | 186                 | 25680           | 2               | 70, 15                   | SN    |
| 1911           | 5   | 81/01/05                  | 2002:34                  | 2006:05                 | 288             | 80                  |                 | 2               | 71, 1                    |       |
| 1912           | 5   | 81/01/05                  | 2012:50                  | 2013:20                 | 85              | 212                 | 3707            | 2               | 71, 1                    |       |
| 1913           | 5   | 81/01/05                  | 2138:45                  | 2139:05                 | 96              | 757                 | 15314           | 5               | 71, 2                    | M     |
| 1914           | 6   | 81/01/06                  | 0426:15                  | 0428:40                 | 515             | 163                 | 17562           | 5               | 71, 4                    |       |
| 1915           | 6   | 81/01/06                  | 1202:15                  | 1203:10                 | 250             | 133                 | 4712            | 2               | 71, 5                    |       |
| 1916           | 7   | 81/01/07                  | 1534:55                  | 1535:10                 | 90              | 67                  |                 | 2               |                          |       |
| 1917           | 8   | 81/01/08                  | 1223:25                  | 1224:40                 | 135             | 132                 | 3686            | 2               | 71, 6                    |       |
| 1918           | 8   | 81/01/08                  | 1313:45                  | 1314:50                 | 125             | 77                  |                 | 2               |                          |       |
| 1919           | 10  | 81/01/10                  | 0458:00                  | 0459:10                 | 243             | 335                 | 17215           | 5               | 71, 7                    |       |
| 1920           | 10  | 81/01/10                  | 1255:15                  | 1256:10                 | 127             | 452                 | 9207            | 5               | 71, 8                    |       |
| 1921           | 11  | 81/01/11                  | 0958:50                  | 0959:15                 | 40              | 79                  |                 | 2               |                          |       |
| 1922           | 11  | 81/01/11                  | 1200:20                  | 1200:35                 | 50              | 83                  |                 | 2               |                          |       |
| 1923           | 12  | 81/01/12                  | 0512:40                  | 0513:10                 | 64              | 112                 | 466             | 2               | 71, 9                    |       |
| 1924           | 12  | 81/01/12                  | 0515:10                  | 0515:25                 | 45              | 97                  |                 | 2               | 71, 9                    |       |
| 1925           | 14  | 81/01/14                  | 0937:40                  | 0938:25                 | 135             | 86                  |                 | 2               |                          |       |
| 1926           | 14  | 81/01/14                  | 1232:50                  | 1234:10                 | 165             | 95                  |                 | 2               |                          |       |
| 1927           | 14  | 81/01/14                  | 2058:50                  | 2100:25                 | 193             | 340                 | 17334           | 5               | 71, 10                   |       |
| 1928           | 14  | 81/01/14                  | 2226:50                  | 2226:55                 | 93              | 114                 | 1609            | 10              | 71, 11                   |       |
| 1929           | 15  | 81/01/15                  | 1721:30                  | 1722:00                 | 65              | 69                  |                 | 2               |                          |       |
| 1933           | 16  | 81/01/16                  | 0307:35                  | 0307:55                 | 45              | 81                  |                 | 2               |                          |       |
| 1930           | 16  | 81/01/16                  | 0606:40                  | 0607:20                 | 55              | 82                  |                 | 2               |                          |       |
| 1931           | 16  | 81/01/16                  | 0657:00                  | 0657:25                 | 25              | 74                  |                 | 2               |                          |       |
| 1932           | 16  | 81/01/16                  | 0834:35                  | 0835:00                 | 54              | 336                 | 4641            | 5               | 71, 12                   |       |
| 1934           | 17  | 81/01/17                  | 1423:15                  | 1423:45                 | 75              | 65                  |                 | 2               |                          |       |
| 1935           | 22  | 81/01/22                  | 1516:50                  | 1517:30                 | 60              | 83                  |                 | 2               |                          |       |
| 1936           | 24  | 81/01/24                  | 0712:30                  | 0713:30                 | 150             | 68                  |                 | 2               |                          |       |
| 1937           | 25  | 81/01/25                  | 0109:25                  | 0110:35                 | 99              | 423                 | 3774            | 5               | 71, 13                   |       |
| 1938           | 25  | 81/01/25                  | 0120:30                  | 0121:50                 | 170             | 95                  |                 | 2               |                          |       |
| 1939           | 25  | 81/01/25                  | 0217:50                  | 0221:30                 | 387             | 613                 | 71410           | 5               | 71, 14                   |       |
| 1940           | 25  | 81/01/25                  | 0406:35                  | 0408:35                 | 510             | 341                 | 22496           | 2               | 71, 15                   |       |
| 1941           | 25  | 81/01/25                  | 0615:05                  | 0616:40                 | 210             | 180                 | 12305           | 2               | 71, 16                   | EN    |
| 1942           | 25  | 81/01/25                  | 0709:25                  | 0710:50                 | 274             | 254                 | 14968           | 2               | 72, 1                    |       |
| 1943           | 25  | 81/01/25                  | 0744:15                  | 0747:00                 | 551             | 31930               | 2.35E+06        | 10              | 72, 2                    | M     |
| 5795           | 25  | 81/01/25                  | 0830:28                  | 0830:41                 | 113             | 753                 | 16886           | 3               | 184, 9                   | I     |
| 5796           | 25  | 81/01/25                  | 0832:34                  | 0833:24                 | 109             | 262                 | 9083            | 2               | 184, 9                   | I     |
| 5797           | 25  | 81/01/25                  | 0846:36                  | 0905:31                 | 2597            | 1281                | 1.16E+06        | 15              | 184, 10                  | I     |
| 1944           | 25  | 81/01/25                  | 1029:10                  | 1029:40                 | 95              | 83                  |                 | 2               |                          |       |
| 1945           | 25  | 81/01/25                  | 1047:35                  | 1048:40                 | 142             | 105                 | 2013            | 2               | 72, 3                    |       |
| 1946           | 25  | 81/01/25                  | 1639:35                  | 1647:10                 | 656             | 556                 | 53094           | 2               | 72, 4                    | M     |
| 1947           | 25  | 81/01/25                  | 1959:10                  | 2000:00                 | 133             | 117                 | 1566            | 2               | 72, 5                    |       |
| 1948           | 25  | 81/01/25                  | 2308:05                  | 2308:50                 | 190             | 76                  |                 | 2               |                          |       |
| 1949           | 25  | 81/01/25                  | 2321:20                  | 2322:30                 | 223             | 114                 | 3267            | 2               | 72, 6                    |       |
| 1950           | 26  | 81/01/26                  | 0205:15                  | 0209:30                 | 668             | 826                 | 68507           | 5               | 72, 7                    | M,FS  |
| 1951           | 26  | 81/01/26                  | 0250:05                  | 0255:40                 | 734             | 394                 | 55083           | 5               | 72, 7                    |       |
| 1952           | 26  | 81/01/26                  | 0402:10                  | 0402:55                 | 125             | 79                  |                 | 2               |                          |       |
| 1953           | 26  | 81/01/26                  | 0407:55                  | 0411:50                 | 326             | 177                 | 10049           | 2               | 72, 8                    |       |
| 1954           | 26  | 81/01/26                  | 0723:00                  | 0723:25                 | 68              | 147                 | 1549            | 2               | 72, 9                    |       |
| 1955           | 26  | 81/01/26                  | 1013:10                  | 1015:00                 | 255             | 178                 | 8400            | 2               | 72, 10                   |       |
| 1956           | 26  | 81/01/26                  | 1029:35                  | 1031:00                 | 210             | 305                 | 12068           | 2               | 72, 10                   |       |
| 1957           | 26  | 81/01/26                  | 1234:05                  | 1235:05                 | 139             | 240                 | 8201            | 2               | 72, 11                   | M     |
| 1958           | 26  | 81/01/26                  | 1318:40                  | 1319:10                 | 70              | 65                  |                 | 2               |                          |       |
| 1959           | 26  | 81/01/26                  | 1321:50                  | 1321:55                 | 80              | 63                  |                 | 2               |                          |       |
| 1960           | 26  | 81/01/26                  | 2005:35                  | 2006:00                 | 45              | 82                  |                 | 2               |                          |       |
| 1961           | 27  | 81/01/27                  | 0031:05                  | 0031:30                 | 35              | 74                  |                 | 2               |                          |       |
| 1962           | 27  | 81/01/27                  | 0402:00                  | 0402:30                 | 110             | 83                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 1963           | 27  | 81/01/27                  | 0532:45                  | 0535:20                 | 386             | 305                 | 17629           | 2               | 72, 12                   |       |
| 1964           | 27  | 81/01/27                  | 1540:55                  | 1542:15                 | 91              | 197                 | 4386            | 5               | 72, 13                   | M ,EN |
| 1965           | 27  | 81/01/27                  | 2312:30                  | 2312:50                 | 55              | 99                  |                 | 2               |                          |       |
| 1966           | 28  | 81/01/28                  | 0204:05                  | 0213:35                 | 1239            | 381                 | 88176           | 5               | 72, 14                   |       |
| 1967           | 28  | 81/01/28                  | 0244:45                  | 0245:35                 | 70              | 90                  |                 | 2               |                          |       |
| 1968           | 28  | 81/01/28                  | 0409:35                  | 0413:20                 | 1101            | 10450               | 1.08E+06        | 12              | 72, 15                   | M     |
| 1969           | 28  | 81/01/28                  | 0516:05                  | 0516:25                 | 45              | 63                  |                 | 2               |                          |       |
| 1970           | 28  | 81/01/28                  | 0831:45                  | 0832:00                 | 60              | 98                  |                 | 2               |                          |       |
| 1971           | 28  | 81/01/28                  | 1953:00                  | 1953:20                 | 40              | 100                 | 952             | 2               |                          |       |
| 1972           | 29  | 81/01/29                  | 0024:15                  | 0024:55                 | 72              | 226                 | 2320            | 5               | 72, 16                   |       |
| 1973           | 29  | 81/01/29                  | 0026:10                  | 0028:20                 | 330             | 181                 | 11001           | 2               | 72, 16                   |       |
| 1974           | 29  | 81/01/29                  | 0408:45                  | 0409:20                 | 274             | 310                 | 9721            | 5               | 73, 1                    |       |
| 1975           | 29  | 81/01/29                  | 1023:00                  | 1023:20                 | 45              | 53                  |                 | 2               |                          |       |
| 1976           | 29  | 81/01/29                  | 1209:20                  | 1209:40                 | 50              | 89                  |                 | 2               |                          |       |
| 1977           | 29  | 81/01/29                  | 1444:00                  | 1444:05                 | 47              | 110                 | 755             | 2               | 73, 2                    |       |
| 1978           | 29  | 81/01/29                  | 1445:20                  | 1446:15                 | 81              | 540                 | 7390            | 10              | 73, 2                    | M     |
| 1980           | 30  | 81/01/30                  | 0010:05                  | 0010:30                 | 35              | 83                  |                 | 2               |                          |       |
| 1981           | 30  | 81/01/30                  | 0320:25                  | 0320:50                 | 50              | 76                  |                 | 2               |                          |       |
| 1982           | 30  | 81/01/30                  | 0327:10                  | 0328:00                 | 91              | 140                 | 1215            | 2               | 73, 3                    |       |
| 1983           | 30  | 81/01/30                  | 0401:25                  | 0401:30                 | 20              | 69                  |                 | 2               |                          |       |
| 1984           | 30  | 81/01/30                  | 0848:55                  | 0849:20                 | 99              | 118                 | 1795            | 2               | 73, 4                    |       |
| 1985           | 30  | 81/01/30                  | 1038:35                  | 1038:55                 | 60              | 61                  |                 | 2               |                          |       |
| 1986           | 30  | 81/01/30                  | 1121:35                  | 1122:05                 | 94              | 247                 | 3284            | 5               | 73                       | M     |
| 1987           | 30  | 81/01/30                  | 1622:40                  | 1623:15                 | 77              | 121                 | 1204            | 2               | 73, 6                    |       |
| 1988           | 30  | 81/01/30                  | 2119:30                  | 2120:15                 | 70              | 64                  |                 | 2               |                          |       |
| 1989           | 31  | 81/01/31                  | 0703:20                  | 0703:40                 | 50              | 93                  |                 | 2               |                          |       |
| 1990           | 31  | 81/01/31                  | 1029:30                  | 1030:35                 | 222             | 104                 | 3898            | 2               | 73, 7                    |       |
| 1991           | 31  | 81/01/31                  | 1932:35                  | 1933:35                 | 112             | 723                 | 9611            | 5               | 73, 8                    |       |
| 1992           | 31  | 81/01/31                  | 2358:55                  | 2359:35                 | 198             | 274                 | 5120            | 5               | 73, 9                    |       |
| 1993           | 32  | 81/02/01                  | 0334:55                  | 0335:20                 | 47              | 179                 | 1487            | 2               | 73, 10                   |       |
| 1994           | 32  | 81/02/01                  | 0346:25                  | 0346:40                 | 75              | 97                  |                 | 2               |                          |       |
| 1995           | 33  | 81/02/02                  | 1241:30                  | 1241:50                 | 30              | 69                  |                 | 2               |                          |       |
| 1996           | 33  | 81/02/02                  | 1242:20                  | 1242:30                 | 25              | 62                  |                 | 2               |                          |       |
| 1997           | 33  | 81/02/02                  | 1549:25                  | 1549:50                 | 125             | 65                  |                 | 2               |                          |       |
| 1998           | 33  | 81/02/02                  | 1904:15                  | 1904:55                 | 70              | 70                  |                 | 2               |                          |       |
| 1999           | 36  | 81/02/05                  | 1003:40                  | 1004:05                 | 45              | 76                  |                 | 2               |                          |       |
| 2000           | 36  | 81/02/05                  | 2225:15                  | 2234:15                 | 1653            | 120                 | 17321           | 5               | 74, 1                    |       |
| 2001           | 37  | 81/02/06                  | 0027:05                  | 0028:20                 | 178             | 176                 | 8172            | 2               | 74, 2                    | M     |
| 2002           | 37  | 81/02/06                  | 1621:05                  | 1621:15                 | 47              | 137                 | 980             | 2               | 74, 3                    |       |
| 2003           | 37  | 81/02/06                  | 2057:35                  | 2057:55                 | 65              | 75                  |                 | 2               |                          |       |
| 2004           | 37  | 81/02/06                  | 2159:20                  | 2200:00                 | 164             | 187                 | 9071            | 2               | 74, 4                    |       |
| 2005           | 37  | 81/02/06                  | 2338:35                  | 2339:15                 | 132             | 327                 | 6135            | 5               | 74, 6                    | M     |
| 2006           | 38  | 81/02/07                  | 0117:05                  | 0118:15                 | 312             | 122                 | 7502            | 5               | 74, 7                    |       |
| 2007           | 38  | 81/02/07                  | 0319:00                  | 0319:27                 | 80              | 69                  |                 | 2               |                          |       |
| 2008           | 38  | 81/02/07                  | 0325:45                  | 0325:55                 | 35              | 80                  |                 | 2               |                          |       |
| 2009           | 38  | 81/02/07                  | 0332:35                  | 0333:10                 | 190             | 1135                | 32644           | 5               | 74, 8                    | M     |
| 2010           | 38  | 81/02/07                  | 0503:30                  | 0503:50                 | 65              | 108                 | 1131            | 2               | 74, 9                    |       |
| 2011           | 38  | 81/02/07                  | 1348:15                  | 1348:40                 | 103             | 2069                | 35404           | 10              | 74, 10                   |       |
| 2012           | 38  | 81/02/07                  | 1352:55                  | 1355:10                 | 338             | 102                 | 4009            | 2               | 74, 11                   |       |
| 2013           | 38  | 81/02/07                  | 1534:20                  | 1535:05                 | 153             | 214                 | 4402            | 5               | 74, 12                   |       |
| 2014           | 38  | 81/02/07                  | 1708:25                  | 1708:45                 | 40              | 79                  |                 | 2               |                          |       |
| 2015           | 38  | 81/02/07                  | 1754:55                  | 1755:45                 | 115             | 74                  |                 | 2               | 74, 13                   |       |
| 2016           | 38  | 81/02/07                  | 1757:10                  | 1757:45                 | 105             | 101                 | 1781            | 2               | 74, 13                   |       |
| 2017           | 38  | 81/02/07                  | 1835:00                  | 1835:10                 | 220             | 447                 | 26322           | 5               | 74, 14                   | SN    |
| 2018           | 38  | 81/02/07                  | 1845:45                  | 1845:55                 | 35              | 87                  |                 | 2               |                          |       |
| 2019           | 38  | 81/02/07                  | 1848:00                  | 1849:35                 | 130             | 143                 | 1550            | 2               | 74, 15                   |       |
| 2020           | 38  | 81/02/07                  | 2058:20                  | 2058:30                 | 162             | 256                 | 6564            | 5               | 74, 16                   |       |
| 2021           | 38  | 81/02/07                  | 2155:00                  | 2155:50                 | 208             | 84                  | 3382            | 5               | 75, 1                    |       |
| 2022           | 38  | 81/02/07                  | 2217:45                  | 2218:50                 | 199             | 196                 | 7164            | 2               | 75, 2                    |       |
| 2023           | 38  | 81/02/07                  | 2225:10                  | 2229:40                 | 555             | 235                 | 34125           | 2               | 75, 2                    |       |
| 2024           | 39  | 81/02/08                  | 0103:00                  | 0103:20                 | 45              | 95                  |                 | 2               | 75, 3                    |       |
| 2025           | 39  | 81/02/08                  | 0109:35                  | 0110:50                 | 287             | 171                 | 9317            | 5               | 75, 3                    |       |
| 2026           | 39  | 81/02/08                  | 0116:40                  | 0117:20                 | 84              | 143                 | 2040            | 5               | 75, 3                    |       |
| 2027           | 39  | 81/02/08                  | 0118:20                  | 0120:30                 | 222             | 150                 | 3824            | 5               | 75, 3                    |       |
| 2028           | 39  | 81/02/08                  | 0129:25                  | 0137:35                 | 555             | 138                 | 7140            | 2               | 75, 3                    |       |
| 2029           | 39  | 81/02/08                  | 0138:45                  | 0140:40                 | 306             | 602                 | 29307           | 5               | 75, 3                    |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2030           | 39  | 81/02/08                  | 0325:20                  | 0329:20                 | 437             | 866                 | 71962           | 5               | 75, 4                    |       |
| 2031           | 39  | 81/02/08                  | 0421:25                  | 0422:20                 | 166             | 423                 | 11779           | 5               | 75, 5                    |       |
| 2032           | 39  | 81/02/08                  | 0449:45                  | 0450:05                 | 45              | 77                  |                 | 2               |                          |       |
| 2033           | 39  | 81/02/08                  | 0757:30                  | 0757:50                 | 55              | 89                  |                 | 2               |                          |       |
| 2034           | 39  | 81/02/08                  | 0759:20                  | 0759:45                 | 60              | 87                  |                 | 2               |                          |       |
| 2035           | 39  | 81/02/08                  | 0938:40                  | 0939:10                 | 68              | 784                 | 3735            | 5               | 75, 6                    |       |
| 2036           | 39  | 81/02/08                  | 0940:25                  | 0940:55                 | 125             | 425                 | 2073            | 5               | 75, 6                    |       |
| 2037           | 39  | 81/02/08                  | 1348:35                  | 1349:35                 | 153             | 307                 | 8191            | 5               | 75, 7                    | EW    |
| 2038           | 39  | 81/02/08                  | 1523:05                  | 1523:20                 | 35              | 82                  |                 | 2               |                          | EW    |
| 2039           | 39  | 81/02/08                  | 1708:20                  | 1708:30                 | 20              | 142                 | 575             | 2               | 75, 8                    |       |
| 2040           | 39  | 81/02/08                  | 1839:50                  | 1839:55                 | 25              | 81                  |                 | 2               |                          |       |
| 2041           | 39  | 81/02/08                  | 2027:45                  | 2028:15                 | 47              | 117                 | 948             | 5               | 75, 9                    |       |
| 2042           | 39  | 81/02/08                  | 2150:20                  | 2153:25                 | 336             | 228                 | 15638           | 10              | 75, 10                   |       |
| 2043           | 40  | 81/02/09                  | 0236:15                  | 0237:30                 | 130             | 88                  |                 | 2               |                          |       |
| 2044           | 40  | 81/02/09                  | 0302:35                  | 0302:50                 | 50              | 80                  |                 | 2               |                          |       |
| 2045           | 40  | 81/02/09                  | 0403:35                  | 0414:05                 | 985             | 140                 | 27214           | 10              | 75, 11                   | AX    |
| 5798           | 40  | 81/02/09                  | 1121:18                  | 1121:49                 | 64              | 1680                | 21656           | 9               | 184, 11                  | I ,FS |
| 2046           | 40  | 81/02/09                  | 1254:40                  | 1255:00                 | 31              | 62                  | 210             | 2               |                          |       |
| 2047           | 40  | 81/02/09                  | 1522:45                  | 1523:25                 | 90              | 68                  |                 | 2               |                          |       |
| 2048           | 40  | 81/02/09                  | 1612:10                  | 1612:15                 | 25              | 60                  |                 | 2               |                          |       |
| 2049           | 40  | 81/02/09                  | 1648:55                  | 1649:30                 | 115             | 73                  |                 | 2               |                          | EW    |
| 2050           | 40  | 81/02/09                  | 2008:20                  | 2009:10                 | 170             | 67                  |                 | 5               |                          |       |
| 2051           | 40  | 81/02/09                  | 2042:15                  | 2051:15                 | 758             | 101                 | 5160            | 5               | 75, 12                   |       |
| 2052           | 40  | 81/02/09                  | 2142:40                  | 2143:40                 | 313             | 244                 | 18634           | 10              | 75, 13                   |       |
| 2053           | 40  | 81/02/09                  | 2351:40                  | 2352:05                 | 60              | 62                  |                 | 2               |                          |       |
| 2054           | 41  | 81/02/10                  | 0006:00                  | 0006:45                 | 95              | 58                  |                 | 2               |                          |       |
| 2055           | 41  | 81/02/10                  | 0057:50                  | 0058:55                 | 150             | 92                  |                 | 5               |                          |       |
| 2056           | 41  | 81/02/10                  | 0138:25                  | 0139:15                 | 156             | 127                 | 2966            | 2               | 75, 14                   |       |
| 2057           | 41  | 81/02/10                  | 0141:25                  | 0141:50                 | 65              | 66                  |                 | 2               | 75, 14                   |       |
| 2058           | 41  | 81/02/10                  | 0222:40                  | 0223:45                 | 135             | 965                 | 22494           | 10              | 75, 15                   |       |
| 2059           | 41  | 81/02/10                  | 0251:45                  | 0252:35                 | 205             | 510                 | 7741            | 10              | 75, 16                   |       |
| 2060           | 41  | 81/02/10                  | 0308:40                  | 0309:20                 | 110             | 160                 | 3903            | 5               | 76, 1                    | M     |
| 2061           | 41  | 81/02/10                  | 0316:00                  | 0321:00                 | 365             | 1217                | 31002           | 10              | 76, 1                    |       |
| 2062           | 41  | 81/02/10                  | 0437:35                  | 0438:30                 | 165             | 71                  |                 | 2               |                          |       |
| 2063           | 41  | 81/02/10                  | 0559:30                  | 0601:10                 | 190             | 284                 | 6518            | 5               | 76, 2                    |       |
| 2064           | 41  | 81/02/10                  | 0927:10                  | 0927:30                 | 81              | 130                 | 850             | 5               | 76, 3                    |       |
| 2065           | 41  | 81/02/10                  | 1333:25                  | 1333:50                 | 45              | 77                  |                 | 2               |                          |       |
| 2066           | 41  | 81/02/10                  | 1913:25                  | 1914:10                 | 65              | 64                  |                 | 2               |                          |       |
| 2067           | 42  | 81/02/11                  | 0119:20                  | 0131:50                 | 960             | 84                  | 7361            | 2               | 76, 4                    |       |
| 2068           | 42  | 81/02/11                  | 0245:15                  | 0245:55                 | 95              | 90                  |                 | 2               |                          |       |
| 2069           | 42  | 81/02/11                  | 0610:35                  | 0611:05                 | 65              | 57                  |                 | 2               |                          |       |
| 2070           | 42  | 81/02/11                  | 1053:05                  | 1053:30                 | 50              | 99                  |                 | 2               |                          |       |
| 2071           | 42  | 81/02/11                  | 2003:05                  | 2003:25                 | 40              | 85                  |                 | 2               |                          |       |
| 2072           | 43  | 81/02/12                  | 0121:35                  | 0122:20                 | 225             | 494                 | 9845            | 5               | 76, 5                    |       |
| 2073           | 43  | 81/02/12                  | 0412:50                  | 0413:30                 | 68              | 218                 | 1982            | 5               | 76, 6                    |       |
| 2074           | 43  | 81/02/12                  | 0432:55                  | 0433:50                 | 140             | 136                 | 4553            | 2               | 76, 7                    |       |
| 5842           | 43  | 81/02/12                  | 0929:17                  | 0931:18                 | 208             | 295                 | 9988            | 3               | 185, 8                   | I     |
| 2075           | 43  | 81/02/12                  | 1048:15                  | 1049:15                 | 137             | 360                 | 8410            | 5               | 76, 8                    |       |
| 2076           | 43  | 81/02/12                  | 1241:00                  | 1242:20                 | 169             | 1043                | 36119           | 10              | 76, 9                    | M     |
| 2077           | 43  | 81/02/12                  | 1731:10                  | 1731:25                 | 75              | 125                 | 1611            | 2               | 76, 11                   | M     |
| 2078           | 43  | 81/02/12                  | 1809:25                  | 1810:30                 | 100             | 66                  |                 | 2               |                          |       |
| 2079           | 43  | 81/02/12                  | 2000:25                  | 2002:25                 | 180             | 91                  |                 | 2               |                          |       |
| 2080           | 44  | 81/02/13                  | 0042:15                  | 0044:35                 | 259             | 89                  | 6504            | 2               | 76, 12                   |       |
| 2081           | 44  | 81/02/13                  | 0412:45                  | 0416:15                 | 400             | 132                 | 12355           | 2               | 76, 13                   |       |
| 2082           | 44  | 81/02/13                  | 0549:40                  | 0550:10                 | 57              | 103                 | 1471            | 2               | 76, 14                   |       |
| 2083           | 44  | 81/02/13                  | 0614:30                  | 0617:25                 | 193             | 128                 | 3102            | 2               | 76, 15                   |       |
| 2084           | 44  | 81/02/13                  | 1406:10                  | 1408:20                 | 188             | 234                 | 10187           | 2               | 76, 16                   |       |
| 2085           | 44  | 81/02/13                  | 1701:40                  | 1701:55                 | 35              | 72                  |                 | 2               |                          |       |
| 5843           | 44  | 81/02/13                  | 2159:43                  | 2200:07                 | 50              | 115                 | 1257            | 2               | 185, 9                   | I     |
| 2086           | 45  | 81/02/14                  | 1213:35                  | 1214:15                 | 120             | 96                  |                 | 2               |                          |       |
| 2087           | 46  | 81/02/15                  | 0050:20                  | 0050:55                 | 201             | 242                 | 11721           | 2               | 77, 1                    |       |
| 2088           | 46  | 81/02/15                  | 0243:40                  | 0244:05                 | 65              | 137                 | 2326            | 2               | 77, 2                    |       |
| 2089           | 46  | 81/02/15                  | 1938:15                  | 1938:45                 | 86              | 104                 | 1513            | 2               | 77, 3                    |       |
| 2090           | 46  | 81/02/15                  | 2111:40                  | 2112:10                 | 112             | 458                 | 33325           | 10              | 77, 4                    | M     |
| 2091           | 47  | 81/02/16                  | 0239:25                  | 0240:00                 | 65              | 165                 | 1810            | 2               | 77, 6                    |       |
| 2092           | 47  | 81/02/16                  | 0546:35                  | 0547:05                 | 124             | 158                 | 3215            | 2               | 77, 7                    |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2093           | 47  | 81/02/16                  | 0550:55                  | 0551:10                 | 32              | 136                 | 1045            | 2               | 77, 7                    |       |
| 2094           | 47  | 81/02/16                  | 0840:15                  | 0840:25                 | 33              | 115                 | 363             | 2               | 77, 8                    |       |
| 2095           | 47  | 81/02/16                  | 1215:20                  | 1215:50                 | 293             | 146                 | 5214            | 2               | 77, 9                    |       |
| 2096           | 47  | 81/02/16                  | 1508:50                  | 1509:05                 | 43              | 107                 | 1300            | 2               | 77, 10                   |       |
| 2097           | 48  | 81/02/17                  | 0013:05                  | 0014:15                 | 155             | 106                 | 2691            | 5               | 77, 11                   |       |
| 2098           | 48  | 81/02/17                  | 0410:05                  | 0411:00                 | 96              | 143                 | 2169            | 2               | 77, 12                   |       |
| 2099           | 48  | 81/02/17                  | 2145:30                  | 2146:30                 | 451             | 9646                | 9.40E+05        | 15              | 77, 13                   | M     |
| 2100           | 49  | 81/02/18                  | 1333:45                  | 1334:00                 | 77              | 289                 | 2525            | 5               | 77, 14                   |       |
| 2101           | 49  | 81/02/18                  | 1456:20                  | 1456:40                 | 30              | 73                  |                 | 2               |                          |       |
| 2102           | 49  | 81/02/18                  | 1639:10                  | 1639:25                 | 217             | 239                 | 6239            | 5               | 77, 15                   |       |
| 2103           | 49  | 81/02/18                  | 2238:10                  | 2238:50                 | 60              | 71                  |                 | 2               |                          |       |
| 2104           | 50  | 81/02/19                  | 0324:15                  | 0337:15                 | 2810            | 1906                | 1.17E+06        | 10              | 77, 16                   | M     |
| 2105           | 50  | 81/02/19                  | 1419:25                  | 1420:15                 | 95              | 84                  |                 | 2               |                          |       |
| 2106           | 50  | 81/02/19                  | 1951:35                  | 1952:25                 | 95              | 64                  |                 | 2               |                          |       |
| 2107           | 50  | 81/02/19                  | 2133:15                  | 2133:25                 | 41              | 240                 | 1157            | 5               | 78, 1                    |       |
| 2108           | 50  | 81/02/19                  | 2137:10                  | 2138:00                 | 118             | 150                 | 2288            | 2               | 78, 1                    |       |
| 2109           | 51  | 81/02/20                  | 0535:25                  | 0536:05                 | 75              | 65                  |                 | 2               |                          |       |
| 5844           | 51  | 81/02/20                  | 0639:03                  | 0645:51                 | 2036            | 25356               | 5.90E+06        | 9               | 185, 10                  | M, I  |
| 2110           | 51  | 81/02/20                  | 2232:15                  | 2232:45                 | 55              | 78                  |                 | 2               |                          |       |
| 2111           | 51  | 81/02/20                  | 2253:45                  | 2254:25                 | 85              | 79                  |                 | 2               |                          |       |
| 2112           | 51  | 81/02/20                  | 2301:30                  | 2302:00                 | 104             | 106                 | 21835           | 2               | 78, 2                    |       |
| 2113           | 52  | 81/02/21                  | 1553:45                  | 1554:05                 | 25              | 98                  |                 | 5               |                          |       |
| 2114           | 52  | 81/02/21                  | 1632:10                  | 1632:35                 | 55              | 93                  |                 | 2               |                          |       |
| 2115           | 52  | 81/02/21                  | 1852:55                  | 1854:30                 | 312             | 126                 | 8555            | 5               | 78, 3                    |       |
| 2116           | 52  | 81/02/21                  | 1902:10                  | 1903:05                 | 181             | 214                 | 8437            | 5               | 78, 3                    |       |
| 2117           | 52  | 81/02/21                  | 1934:50                  | 1935:05                 | 35              | 62                  |                 | 2               |                          |       |
| 2118           | 52  | 81/02/21                  | 2030:45                  | 2033:05                 | 258             | 162                 | 10545           | 5               | 78, 4                    |       |
| 2119           | 52  | 81/02/21                  | 2208:20                  | 2208:40                 | 30              | 96                  |                 | 2               |                          |       |
| 2120           | 52  | 81/02/21                  | 2220:20                  | 2222:10                 | 141             | 103                 | 1325            | 2               | 78, 5                    |       |
| 2121           | 52  | 81/02/21                  | 2227:00                  | 2227:05                 | 15              | 67                  |                 | 2               |                          |       |
| 2122           | 52  | 81/02/21                  | 2229:35                  | 2229:45                 | 25              | 198                 | 1042            | 2               | 78, 6                    |       |
| 5849           | 53  | 81/02/22                  | 0000:51                  | 0001:09                 | 40              | 107                 | 485             | 2               | 185, 13                  | I     |
| 5847           | 53  | 81/02/22                  | 1543:56                  | 1552:37                 | 795             | 87                  | 9876            | 2               | 185, 12                  | I     |
| 5848           | 53  | 81/02/22                  | 1606:30                  | 1606:51                 | 64              | 71                  |                 | 2               |                          | I     |
| 2123           | 53  | 81/02/22                  | 1904:40                  | 1904:55                 | 55              | 118                 | 955             | 2               | 78, 7                    |       |
| 2124           | 53  | 81/02/22                  | 2114:25                  | 2115:15                 | 60              | 98                  |                 | 2               |                          |       |
| 5850           | 54  | 81/02/23                  | 0007:22                  | 0007:41                 | 102             | 68                  |                 | 2               |                          | I     |
| 2125           | 54  | 81/02/23                  | 0024:50                  | 0024:55                 | 45              | 68                  |                 | 2               |                          |       |
| 2126           | 54  | 81/02/23                  | 0616:10                  | 0617:10                 | 115             | 96                  |                 | 2               |                          | EW    |
| 2127           | 54  | 81/02/23                  | 0652:35                  | 0657:05                 | 520             | 105                 | 10026           | 4               | 78, 8                    | EW    |
| 2128           | 55  | 81/02/24                  | 0008:30                  | 0011:05                 | 1525            | 8243                | 1.05E+06        | 15              | 78, 9                    |       |
| 2129           | 55  | 81/02/24                  | 0629:20                  | 0632:45                 | 316             | 118                 | 3515            | 2               | 78, 10                   |       |
| 5851           | 55  | 81/02/24                  | 0755:15                  | 0759:58                 | 577             | 85                  | 8245            | 2               | 185, 14                  | I, ND |
| 5852           | 55  | 81/02/24                  | 0817:52                  | 0818:42                 | 113             | 62                  |                 | 2               |                          | I     |
| 5853           | 55  | 81/02/24                  | 0820:33                  | 0821:35                 | 94              | 433                 | 11734           | 4               | 185, 15                  | I, EG |
| 2130           | 55  | 81/02/24                  | 1059:00                  | 1059:20                 | 610             | 131                 | 14682           | 2               | 78, 11                   |       |
| 2131           | 55  | 81/02/24                  | 1121:35                  | 1121:55                 | 50              | 157                 | 1389            | 2               | 78, 12                   |       |
| 2132           | 55  | 81/02/24                  | 1134:25                  | 1134:45                 | 40              | 73                  |                 | 2               |                          |       |
| 2133           | 55  | 81/02/24                  | 1217:45                  | 1226:35                 | 1878            | 3276                | 1.59E+06        | 10              | 78, 13                   | SN    |
| 2134           | 55  | 81/02/24                  | 1623:35                  | 1624:15                 | 60              | 76                  |                 | 2               |                          |       |
| 2135           | 55  | 81/02/24                  | 1757:15                  | 1759:05                 | 588             | 62                  | 364             | 2               | 78, 14                   |       |
| 2136           | 55  | 81/02/24                  | 1855:40                  | 1856:55                 | 165             | 65                  |                 | 2               |                          |       |
| 2137           | 55  | 81/02/24                  | 1932:45                  | 1936:35                 | 607             | 19518               | 3.43E+06        | 15              | 78, 15                   | M, EN |
| 2138           | 55  | 81/02/24                  | 2042:50                  | 2044:25                 | 186             | 216                 | 8690            | 2               | 78, 16                   |       |
| 2139           | 56  | 81/02/25                  | 0203:40                  | 0204:30                 | 101             | 356                 | 10665           | 2               | 79, 1                    | M     |
| 2140           | 56  | 81/02/25                  | 0241:05                  | 0241:20                 | 491             | 604                 | 45724           | 5               | 79, 2                    | SN    |
| 2141           | 56  | 81/02/25                  | 0434:10                  | 0434:35                 | 20              | 100                 | 552             | 2               |                          |       |
| 2142           | 56  | 81/02/25                  | 0446:55                  | 0447:10                 | 53              | 135                 | 1475            | 10              | 79, 3                    |       |
| 2143           | 56  | 81/02/25                  | 0804:45                  | 0805:55                 | 143             | 234                 | 3768            | 5               | 79, 4                    |       |
| 2144           | 56  | 81/02/25                  | 0922:55                  | 0923:25                 | 95              | 72                  |                 | 2               |                          |       |
| 2145           | 56  | 81/02/25                  | 1400:55                  | 1401:00                 | 38              | 230                 | 1586            | 2               | 79, 5                    |       |
| 2146           | 56  | 81/02/25                  | 2232:10                  | 2232:25                 | 35              | 100                 | 608             | 2               |                          |       |
| 2147           | 57  | 81/02/26                  | 0813:55                  | 0814:30                 | 60              | 60                  |                 | 2               |                          |       |
| 2148           | 57  | 81/02/26                  | 0926:45                  | 0927:05                 | 30              | 97                  |                 | 2               |                          |       |
| 2149           | 57  | 81/02/26                  | 0934:50                  | 0936:10                 | 110             | 85                  |                 | 2               |                          |       |
| 2150           | 57  | 81/02/26                  | 1227:15                  | 1227:55                 | 65              | 100                 | 1563            | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2151           | 57  | 81/02/26                  | 1238:30                  | 1238:50                 | 65              | 97                  |                 | 2               |                          |       |
| 2152           | 57  | 81/02/26                  | 1404:40                  | 1405:10                 | 65              | 76                  |                 | 2               |                          |       |
| 2153           | 57  | 81/02/26                  | 1423:10                  | 1425:55                 | 497             | 22521               | 9.58E+05        | 15              | 79, 6                    | M     |
| 2154           | 57  | 81/02/26                  | 1830:20                  | 1847:05                 | 2810            | 384                 | 1.10E+05        | 10              | 79, 7                    | EW    |
| 2155           | 57  | 81/02/26                  | 1920:15                  | 1921:25                 | 91              | 200                 | 4090            | 5               | 79, 7                    |       |
| 2156           | 57  | 81/02/26                  | 1922:25                  | 1923:00                 | 227             | 606                 | 19379           | 10              | 79, 7                    |       |
| 2157           | 57  | 81/02/26                  | 1930:05                  | 1932:05                 | 192             | 3728                | 78299           | 10              | 79, 7                    | M     |
| 2158           | 57  | 81/02/26                  | 2006:05                  | 2009:15                 | 1964            | 215                 | 58114           | 2               | 79, 7                    | SN    |
| 2159           | 57  | 81/02/26                  | 2151:25                  | 2151:50                 | 50              | 84                  |                 | 2               |                          |       |
| 2160           | 57  | 81/02/26                  | 2157:20                  | 2157:40                 | 45              | 62                  |                 | 2               |                          |       |
| 2161           | 57  | 81/02/26                  | 2228:05                  | 2228:15                 | 37              | 128                 | 899             | 2               | 79, 8                    |       |
| 2162           | 57  | 81/02/26                  | 2327:40                  | 2328:00                 | 95              | 435                 | 11519           | 10              | 79, 9                    |       |
| 2163           | 57  | 81/02/26                  | 2331:30                  | 2332:55                 | 141             | 817                 | 24594           | 10              | 79, 9                    | M, FS |
| 2164           | 58  | 81/02/27                  | 0112:50                  | 0114:15                 | 135             | 105                 | 2163            | 2               | 79, 11                   |       |
| 2165           | 58  | 81/02/27                  | 0133:25                  | 0135:10                 | 214             | 1230                | 32854           | 10              | 79, 12                   |       |
| 5857           | 58  | 81/02/27                  | 0456:33                  | 0456:59                 | 97              | 79                  |                 | 2               |                          | I     |
| 2166           | 58  | 81/02/27                  | 0728:30                  | 0728:45                 | 30              | 68                  |                 | 2               |                          |       |
| 2167           | 58  | 81/02/27                  | 1240:15                  | 1240:35                 | 70              | 66                  |                 | 2               |                          |       |
| 2168           | 58  | 81/02/27                  | 1533:35                  | 1534:40                 | 121             | 108                 | 3226            | 5               | 79, 13                   |       |
| 2169           | 58  | 81/02/27                  | 1547:00                  | 1547:05                 | 15              | 70                  |                 | 2               |                          |       |
| 2170           | 58  | 81/02/27                  | 1711:55                  | 1712:35                 | 70              | 81                  |                 | 5               |                          |       |
| 2171           | 58  | 81/02/27                  | 2020:35                  | 2023:20                 | 422             | 60                  | 2180            | 2               | 79, 14                   |       |
| 2172           | 58  | 81/02/27                  | 2312:35                  | 2315:10                 | 1206            | 114                 | 24778           | 2               | 79, 15                   |       |
| 2173           | 59  | 81/02/28                  | 0440:00                  | 0440:20                 | 35              | 97                  |                 | 2               |                          |       |
| 2174           | 59  | 81/02/28                  | 0629:35                  | 0630:20                 | 85              | 94                  |                 | 2               |                          |       |
| 2175           | 59  | 81/02/28                  | 0903:55                  | 0904:10                 | 40              | 80                  |                 | 2               |                          |       |
| 2176           | 59  | 81/02/28                  | 1204:20                  | 1204:40                 | 52              | 327                 | 3049            | 5               | 79, 16                   |       |
| 2177           | 59  | 81/02/28                  | 1850:55                  | 1851:25                 | 105             | 66                  |                 | 2               |                          |       |
| 2178           | 60  | 81/03/01                  | 0059:40                  | 0100:15                 | 110             | 75                  |                 | 2               |                          |       |
| 5393           | 60  | 81/03/01                  | 1235:29                  | 1235:31                 | 9               | 277                 | 573             | 15              | 173, 5                   | I     |
| 2179           | 61  | 81/03/02                  | 0046:15                  | 0047:15                 | 210             | 126                 | 2453            | 2               | 80, 1                    |       |
| 2180           | 61  | 81/03/02                  | 0450:50                  | 0451:00                 | 30              | 61                  |                 | 2               |                          |       |
| 2181           | 61  | 81/03/02                  | 1230:20                  | 1231:30                 | 140             | 77                  |                 | 2               |                          |       |
| 2182           | 61  | 81/03/02                  | 1325:10                  | 1326:50                 | 160             | 145                 | 4221            | 2               | 80, 2                    | M     |
| 2183           | 61  | 81/03/02                  | 1334:20                  | 1334:25                 | 10              | 71                  |                 | 5               |                          |       |
| 2184           | 61  | 81/03/02                  | 1518:35                  | 1519:30                 | 195             | 81                  |                 | 5               |                          |       |
| 2185           | 61  | 81/03/02                  | 1842:00                  | 1849:25                 | 605             | 100                 | 9799            | 2               | 80, 4                    |       |
| 2186           | 61  | 81/03/02                  | 2300:30                  | 2300:45                 | 30              | 84                  |                 | 2               |                          |       |
| 2187           | 62  | 81/03/03                  | 0656:25                  | 0701:30                 | 1364            | 133                 | 40977           | 2               | 80, 5                    | SN    |
| 5860           | 62  | 81/03/03                  | 1511:17                  | 1511:39                 | 41              | 74                  |                 | 3               |                          | I     |
| 2188           | 63  | 81/03/04                  | 0117:20                  | 0118:45                 | 115             | 115                 | 1492            | 2               | 80, 6                    |       |
| 2189           | 63  | 81/03/04                  | 0400:20                  | 0400:25                 | 20              | 88                  |                 | 2               |                          |       |
| 2190           | 63  | 81/03/04                  | 1320:00                  | 1320:10                 | 25              | 80                  |                 | 2               |                          |       |
| 5861           | 64  | 81/03/05                  | 0423:35                  | 0424:09                 | 157             | 159                 | 3967            | 2               | 186, 1                   | I     |
| 5862           | 64  | 81/03/05                  | 0431:11                  | 0431:42                 | 252             | 70                  | 9818            | 2               | 186, 1                   | I     |
| 5863           | 64  | 81/03/05                  | 0709:31                  | 0711:25                 | 820             | 617                 | 54590           | 4               | 186, 2                   | I     |
| 2191           | 64  | 81/03/05                  | 1623:55                  | 1630:55                 | 1261            | 586                 | 1.55E+05        | 10              | 80, 7                    | AX    |
| 2192           | 65  | 81/03/06                  | 0203:45                  | 0205:25                 | 238             | 783                 | 37239           | 5               | 80, 8                    | M     |
| 2193           | 65  | 81/03/06                  | 0235:15                  | 0236:05                 | 100             | 156                 | 2322            | 2               | 80, 8                    |       |
| 2194           | 65  | 81/03/06                  | 0241:00                  | 0245:20                 | 517             | 814                 | 88234           | 3               | 80, 8                    |       |
| 2195           | 65  | 81/03/06                  | 1328:45                  | 1329:05                 | 45              | 71                  |                 | 2               |                          |       |
| 2196           | 66  | 81/03/07                  | 0156:35                  | 0157:10                 | 50              | 101                 | 1204            | 2               |                          |       |
| 5865           | 66  | 81/03/07                  | 1020:13                  | 1020:55                 | 67              | 65                  |                 | 2               |                          | I     |
| 2197           | 66  | 81/03/07                  | 2248:25                  | 2248:40                 | 65              | 157                 | 1805            | 2               | 80, 9                    |       |
| 2198           | 67  | 81/03/08                  | 0158:15                  | 0158:50                 | 75              | 80                  |                 | 2               |                          |       |
| 2199           | 67  | 81/03/08                  | 0208:20                  | 0209:40                 | 130             | 84                  |                 | 2               |                          |       |
| 2200           | 67  | 81/03/08                  | 0838:15                  | 0838:35                 | 60              | 77                  |                 | 2               |                          |       |
| 5866           | 67  | 81/03/08                  | 2116:41                  | 2117:29                 | 174             | 73                  |                 | 2               |                          | I     |
| 2202           | 68  | 81/03/09                  | 0642:10                  | 0642:15                 | 18              | 108                 | 280             | 2               | 80, 10                   |       |
| * 2203         | 69  | 81/03/10                  | 0020:35                  | 0021:10                 | 65              | 478                 | 6228            | 10              | 80, 11                   |       |
| * 2204         | 69  | 81/03/10                  | 0313:00                  | 0314:35                 | 160             | 139                 | 1920            | 5               |                          |       |
| * 2205         | 69  | 81/03/10                  | 0622:05                  | 0623:15                 | 180             | 182                 | 3860            | 2               |                          |       |
| * 2206         | 69  | 81/03/10                  | 0831:30                  | 0832:30                 | 188             | 328                 | 13826           | 5               | 80, 12                   |       |
| * 2207         | 70  | 81/03/11                  | 1143:15                  | 1144:45                 | 140             | 175                 | 5037            | 5               |                          |       |
| * 2208         | 70  | 81/03/11                  | 1150:10                  | 1150:40                 | 90              | 227                 | 4197            | 5               | 80, 13                   |       |
| * 2209         | 71  | 81/03/12                  | 0134:55                  | 0135:25                 | 50              | 146                 | 1621            | 5               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| * 2210         | 72  | 81/03/13                  | 2057:55                  | 2058:50                 | 120             | 50                  |                 | 2               |                          |        |
| * 2211         | 73  | 81/03/14                  | 1042:25                  | 1042:35                 | 165             | 70                  |                 | 2               |                          | SN     |
| * 2212         | 74  | 81/03/15                  | 2347:55                  | 2348:20                 | 60              | 51                  |                 | 2               |                          |        |
| * 2213         | 76  | 81/03/17                  | 0805:22                  | 0805:25                 | 9               | 202                 | 462             | 15              | 80, 14                   | AX     |
| * 2214         | 78  | 81/03/19                  | 0919:45                  | 0920:00                 | 30              | 178                 | 1211            | 5               | 80, 15                   |        |
| * 2215         | 78  | 81/03/19                  | 1238:45                  | 1239:15                 | 60              | 61                  |                 | 2               |                          |        |
| * 2216         | 78  | 81/03/19                  | 1330:45                  | 1331:10                 | 80              | 143                 | 2118            | 2               | 80, 16                   |        |
| * 2217         | 79  | 81/03/20                  | 0536:55                  | 0537:15                 | 85              | 59                  |                 | 2               |                          |        |
| * 2218         | 79  | 81/03/20                  | 1955:45                  | 1956:45                 | 75              | 67                  |                 | 2               |                          |        |
| * 2219         | 80  | 81/03/21                  | 0029:37                  | 0029:45                 | 28              | 142                 | 982             | 2               | 81, 1                    |        |
| * 2220         | 80  | 81/03/21                  | 0239:25                  | 0241:35                 | 180             | 65                  |                 | 2               |                          |        |
| * 2221         | 80  | 81/03/21                  | 0344:00                  | 0344:15                 | 75              | 353                 | 4498            | 5               | 81, 2                    | FS     |
| * 2222         | 80  | 81/03/21                  | 2141:15                  | 2142:15                 | 130             | 170                 | 4109            | 2               | 81, 3                    |        |
| * 2223         | 81  | 81/03/22                  | 0044:05                  | 0044:30                 | 47              | 885                 | 112             | 2               | 81, 4                    |        |
| * 2224         | 81  | 81/03/22                  | 0204:20                  | 0204:35                 | 77              | 107                 | 725             | 2               | 81, 5                    |        |
| * 2225         | 81  | 81/03/22                  | 0606:20                  | 0606:50                 | 55              | 86                  |                 | 2               |                          |        |
| * 2226         | 81  | 81/03/22                  | 0858:05                  | 0858:10                 | 37              | 168                 | 820             | 2               | 81, 6                    |        |
| * 2227         | 81  | 81/03/22                  | 1222:25                  | 1222:45                 | 67              | 353                 | 3902            | 5               | 81, 7                    |        |
| * 2228         | 81  | 81/03/22                  | 1930:20                  | 1930:35                 | 30              | 59                  |                 | 2               | 81, 8                    |        |
| * 2229         | 81  | 81/03/22                  | 1931:20                  | 1931:30                 | 35              | 243                 | 1352            | 2               | 81, 8                    | FS     |
| * 2230         | 81  | 81/03/22                  | 1949:10                  | 1952:15                 | 260             | 183                 | 9493            | 5               | 81, 9                    |        |
| * 5884         | 81  | 81/03/22                  | 2143:47                  | 2144:14                 | 90              | 791                 | 10044           | 4               | 186, 13                  | I      |
| * 2231         | 81  | 81/03/22                  | 2200:20                  | 2200:35                 | 42              | 1283                | 9256            | 5               | 81, 10                   | M, FS  |
| * 2232         | 81  | 81/03/22                  | 2202:00                  | 2202:35                 | 85              | 199                 | 2173            | 5               | 81, 10                   | M      |
| * 2233         | 81  | 81/03/22                  | 2306:10                  | 2306:35                 | 70              | 148                 | 1733            | 5               | 81, 11                   |        |
| * 2234         | 82  | 81/03/23                  | 0644:55                  | 0646:30                 | 150             | 199                 | 5693            | 5               | 81, 12                   |        |
| * 2235         | 82  | 81/03/23                  | 0653:00                  | 0656:00                 | 294             | 2175                | 1.11E+05        | 10              | 81, 12                   | M      |
| * 2236         | 82  | 81/03/23                  | 0659:35                  | 0700:00                 | 685             | 553                 | 4684            | 15              | 81, 12                   |        |
| * 2237         | 82  | 81/03/23                  | 0731:40                  | 0732:15                 | 150             | 67                  |                 | 2               |                          |        |
| * 2238         | 82  | 81/03/23                  | 1024:00                  | 1025:15                 | 110             | 85                  |                 | 5               |                          |        |
| * 2239         | 82  | 81/03/23                  | 1123:35                  | 1128:05                 | 360             | 74                  | 5101            | 2               | 81, 13                   |        |
| * 2240         | 82  | 81/03/23                  | 1204:10                  | 1204:20                 | 483             | 4160                | 91498           | 10              | 81, 14                   |        |
| 2241           | 82  | 81/03/23                  | 1925:30                  | 1929:40                 | 573             | 81                  | 7106            | 2               | 81, 15                   | EW     |
| 2242           | 82  | 81/03/23                  | 2114:05                  | 2115:40                 | 370             | 294                 | 23569           | 5               | 81, 16                   | EW     |
| 2243           | 82  | 81/03/23                  | 2300:25                  | 2300:55                 | 35              | 82                  |                 | 2               |                          |        |
| 2244           | 83  | 81/03/24                  | 0154:55                  | 0157:10                 | 850             | 894                 | 82671           | 5               | 82, 1                    | M      |
| 2245           | 83  | 81/03/24                  | 0717:30                  | 0717:45                 | 105             | 90                  |                 | 2               | 82, 3                    |        |
| 2246           | 83  | 81/03/24                  | 0719:30                  | 0719:45                 | 550             | 253                 | 4614            | 5               | 82, 3                    |        |
| 2247           | 83  | 81/03/24                  | 0837:50                  | 0838:05                 | 45              | 63                  |                 | 2               |                          |        |
| 2248           | 83  | 81/03/24                  | 1209:55                  | 1210:30                 | 185             | 70                  |                 | 2               |                          |        |
| 2249           | 84  | 81/03/25                  | 0056:40                  | 0057:10                 | 150             | 87                  |                 | 2               |                          |        |
| 2250           | 84  | 81/03/25                  | 0202:00                  | 0202:05                 | 80              | 82                  |                 | 2               |                          |        |
| 2251           | 84  | 81/03/25                  | 0204:30                  | 0205:10                 | 100             | 83                  |                 | 2               |                          |        |
| 2252           | 84  | 81/03/25                  | 0505:50                  | 0506:50                 | 159             | 230                 | 10752           | 2               | 82, 4                    |        |
| 2253           | 84  | 81/03/25                  | 0524:05                  | 0525:10                 | 173             | 115                 | 4302            | 2               | 82, 5                    |        |
| 2254           | 84  | 81/03/25                  | 0844:40                  | 0845:25                 | 160             | 60                  |                 | 2               |                          |        |
| 2255           | 84  | 81/03/25                  | 0936:50                  | 0937:10                 | 60              | 97                  |                 | 2               |                          | ES, EW |
| 2256           | 84  | 81/03/25                  | 1025:40                  | 1026:20                 | 65              | 67                  |                 | 2               |                          |        |
| 2257           | 84  | 81/03/25                  | 1612:10                  | 1612:25                 | 105             | 94                  |                 | 2               |                          |        |
| 2258           | 84  | 81/03/25                  | 1921:10                  | 1921:50                 | 85              | 67                  |                 | 2               |                          |        |
| 2259           | 84  | 81/03/25                  | 2046:00                  | 2046:40                 | 1796            | 3271                | 6.97E+06        | 5               | 82, 6                    | SN     |
| 2260           | 84  | 81/03/25                  | 2239:40                  | 2240:00                 | 50              | 83                  |                 | 2               |                          |        |
| 2261           | 85  | 81/03/26                  | 0232:00                  | 0232:25                 | 45              | 57                  |                 | 2               |                          |        |
| 6299           | 85  | 81/03/26                  | 2133:30                  | 2134:02                 | 104             | 101                 | 2418            | 2               |                          | I      |
| 2262           | 86  | 81/03/27                  | 0009:05                  | 0011:35                 | 1466            | 99                  | 23863           | 2               | 82, 7                    |        |
| 2263           | 86  | 81/03/27                  | 0156:45                  | 0158:50                 | 333             | 101                 | 4536            | 2               | 82, 8                    |        |
| 2264           | 86  | 81/03/27                  | 2052:30                  | 2053:10                 | 135             | 56                  |                 | 2               |                          |        |
| 2265           | 87  | 81/03/28                  | 0004:25                  | 0005:05                 | 105             | 98                  |                 | 5               |                          |        |
| 2266           | 87  | 81/03/28                  | 1506:20                  | 1506:55                 | 55              | 109                 | 1113            | 2               | 82, 9                    |        |
| 2267           | 87  | 81/03/28                  | 1556:55                  | 1557:20                 | 40              | 92                  |                 | 2               |                          |        |
| 2268           | 87  | 81/03/28                  | 1720:00                  | 1720:15                 | 35              | 74                  |                 | 2               |                          |        |
| 2269           | 87  | 81/03/28                  | 1909:15                  | 1909:40                 | 40              | 90                  |                 | 2               |                          |        |
| 2270           | 87  | 81/03/28                  | 1927:45                  | 1928:20                 | 65              | 71                  |                 | 2               |                          |        |
| 2271           | 87  | 81/03/28                  | 1931:10                  | 1932:10                 | 160             | 191                 | 4832            | 2               | 82, 10                   |        |
| 2272           | 87  | 81/03/28                  | 2119:30                  | 2120:10                 | 60              | 77                  |                 | 2               |                          |        |
| 2273           | 88  | 81/03/29                  | 1632:05                  | 1632:50                 | 160             | 96                  |                 | 2               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 2274           | 88  | 81/03/29                  | 2208:10                  | 2209:25                 | 195             | 73                  |                 | 2               |                          |          |
| 2275           | 88  | 81/03/29                  | 2244:35                  | 2244:50                 | 30              | 81                  |                 | 2               |                          |          |
| 2276           | 88  | 81/03/29                  | 2349:50                  | 2350:30                 | 155             | 79                  |                 | 2               |                          |          |
| 2277           | 89  | 81/03/30                  | 0009:55                  | 0021:45                 | 1507            | 496                 | 2.25E+05        | 10              | 82, 11                   | M ,EN    |
| 2278           | 89  | 81/03/30                  | 0311:50                  | 0313:00                 | 145             | 70                  |                 | 2               |                          |          |
| 2279           | 89  | 81/03/30                  | 0653:20                  | 0654:25                 | 185             | 75                  |                 | 2               |                          |          |
| 2280           | 89  | 81/03/30                  | 2155:30                  | 2200:00                 | 915             | 244                 | 31987           | 10              | 82, 12                   |          |
| 2281           | 89  | 81/03/30                  | 2226:05                  | 2226:20                 | 39              | 156                 | 969             | 2               | 82, 13                   |          |
| 2282           | 90  | 81/03/31                  | 0425:55                  | 0425:55                 | 193             | 135                 | 2880            | 5               | 82, 14                   | SA       |
| 2283           | 90  | 81/03/31                  | 0436:45                  | 0436:45                 | 145             | 63                  |                 | 2               |                          |          |
| 2284           | 90  | 81/03/31                  | 0442:40                  | 0443:25                 | 160             | 73                  |                 | 2               |                          |          |
| 2285           | 90  | 81/03/31                  | 0446:55                  | 0447:20                 | 40              | 68                  |                 | 2               |                          |          |
| 2286           | 90  | 81/03/31                  | 0640:25                  | 0640:50                 | 75              | 76                  |                 | 2               |                          |          |
| 2287           | 90  | 81/03/31                  | 1300:55                  | 1301:55                 | 164             | 1905                | 25782           | 10              | 82, 15                   | M        |
| 2288           | 90  | 81/03/31                  | 1528:20                  | 1528:50                 | 140             | 66                  |                 | 2               |                          |          |
| 2289           | 90  | 81/03/31                  | 1607:50                  | 1608:25                 | 65              | 74                  |                 | 2               |                          |          |
| 2290           | 90  | 81/03/31                  | 2052:40                  | 2053:00                 | 125             | 68                  |                 | 2               |                          |          |
| 2291           | 90  | 81/03/31                  | 2149:35                  | 2150:15                 | 75              | 285                 | 6499            | 5               | 82, 16                   |          |
| 2292           | 90  | 81/03/31                  | 2233:45                  | 2234:40                 | 155             | 75                  |                 | 5               |                          |          |
| 2293           | 91  | 81/04/01                  | 0105:40                  | 0146:04                 | 3140            | 12460               | 7.20E+06        | 14              | 83, 1                    | EN       |
| 2294           | 91  | 81/04/01                  | 1242:57                  | 1244:39                 | 180             | 85                  |                 | 2               |                          |          |
| 2295           | 91  | 81/04/01                  | 1348:45                  | 1418:50                 | 3330            | 205                 | 81263           | 7               | 83, 2                    | M ,EN,IS |
| 2296           | 91  | 81/04/01                  | 2004:05                  | 2004:55                 | 95              | 62                  |                 | 2               |                          |          |
| 2297           | 91  | 81/04/01                  | 2143:25                  | 2143:55                 | 286             | 136                 | 8348            | 5               | 83, 3                    | AX       |
| 2298           | 92  | 81/04/02                  | 0805:15                  | 0805:30                 | 25              | 85                  |                 | 2               |                          |          |
| 2299           | 92  | 81/04/02                  | 1059:05                  | 1106:40                 | 985             | 14865               | 2.55E+06        | 12              | 83, 4                    | M        |
| 2300           | 92  | 81/04/02                  | 1420:15                  | 1421:25                 | 96              | 119                 | 1372            | 2               | 83, 5                    |          |
| 6755           | 92  | 81/04/02                  | 2134:19                  | 2136:27                 | 815             | 125                 | 11206           | 4               | 212, 3                   |          |
| 2301           | 93  | 81/04/03                  | 0126:00                  | 0127:00                 | 227             | 126                 | 3404            | 2               | 83, 6                    |          |
| 2302           | 93  | 81/04/03                  | 0755:10                  | 0755:40                 | 60              | 64                  |                 | 2               |                          |          |
| 2303           | 93  | 81/04/03                  | 0911:35                  | 0919:25                 | 1895            | 371                 | 91207           | 5               | 83, 7                    | EN       |
| 2304           | 93  | 81/04/03                  | 1640:55                  | 1648:40                 | 715             | 84                  | 5515            | 2               | 83, 8                    |          |
| 2305           | 93  | 81/04/03                  | 1659:10                  | 1659:25                 | 145             | 69                  |                 | 2               |                          |          |
| 2306           | 93  | 81/04/03                  | 1832:30                  | 1839:40                 | 1135            | 204                 | 23967           | 10              | 83, 9                    |          |
| 2307           | 93  | 81/04/03                  | 2021:20                  | 2021:45                 | 136             | 147                 | 5843            | 2               | 83, 10                   |          |
| 2308           | 93  | 81/04/03                  | 2040:50                  | 2041:15                 | 195             | 98                  |                 | 2               |                          |          |
| 2309           | 93  | 81/04/03                  | 2323:55                  | 2331:45                 | 2250            | 85                  | 22619           | 2               | 83, 11                   |          |
| 2310           | 94  | 81/04/04                  | 0223:40                  | 0225:40                 | 157             | 190                 | 2565            | 2               | 83, 12                   |          |
| 2311           | 94  | 81/04/04                  | 0228:30                  | 0231:40                 | 296             | 377                 | 12001           | 5               | 83, 12                   |          |
| 2312           | 94  | 81/04/04                  | 0244:55                  | 0245:20                 | 65              | 96                  |                 | 2               |                          |          |
| 2313           | 94  | 81/04/04                  | 0622:50                  | 0623:30                 | 120             | 59                  |                 | 2               |                          |          |
| 2314           | 94  | 81/04/04                  | 1643:50                  | 1645:05                 | 171             | 208                 | 6804            | 2               | 83, 13                   |          |
| 2315           | 94  | 81/04/04                  | 1946:55                  | 1947:00                 | 180             | 91                  |                 | 2               |                          | SN       |
| 2316           | 94  | 81/04/04                  | 2122:00                  | 2123:40                 | 563             | 308                 | 1.10E+05        | 5               | 83, 14                   |          |
| 2317           | 94  | 81/04/04                  | 2159:15                  | 2203:00                 | 672             | 236                 | 24995           | 5               | 83, 15                   |          |
| 2318           | 94  | 81/04/04                  | 2311:00                  | 2312:50                 | 248             | 106                 | 3406            | 2               | 83, 16                   |          |
| 2319           | 94  | 81/04/04                  | 2345:25                  | 2346:55                 | 210             | 70                  |                 | 2               |                          |          |
| 2320           | 95  | 81/04/05                  | 0032:15                  | 0056:40                 | 1705            | 88                  | 17225           | 2               | 84, 1                    |          |
| 2321           | 95  | 81/04/05                  | 0256:10                  | 0256:10                 | 26              | 320                 | 1194            | 5               | 84, 2                    | SG,DG    |
| 2322           | 95  | 81/04/05                  | 1415:15                  | 1415:50                 | 65              | 70                  |                 | 2               |                          |          |
| 2323           | 95  | 81/04/05                  | 1803:55                  | 1804:30                 | 195             | 56                  |                 | 2               |                          |          |
| 2324           | 95  | 81/04/05                  | 1853:20                  | 1854:15                 | 90              | 69                  |                 | 2               |                          |          |
| 2325           | 95  | 81/04/05                  | 1857:25                  | 1901:00                 | 327             | 85                  | 7692            | 2               | 84, 3                    |          |
| 2326           | 95  | 81/04/05                  | 2116:10                  | 2117:30                 | 290             | 81                  | 4956            | 5               | 84, 4                    |          |
| 2327           | 95  | 81/04/05                  | 2140:35                  | 2142:30                 | 195             | 84                  |                 | 2               |                          |          |
| 2328           | 95  | 81/04/05                  | 2145:55                  | 2146:35                 | 65              | 58                  |                 | 2               |                          |          |
| 2329           | 96  | 81/04/06                  | 0706:15                  | 0708:45                 | 195             | 52                  |                 | 2               |                          |          |
| 2330           | 96  | 81/04/06                  | 0710:20                  | 0712:35                 | 160             | 51                  |                 | 2               |                          |          |
| 2331           | 96  | 81/04/06                  | 0723:35                  | 0724:35                 | 149             | 114                 | 2015            | 2               | 84, 5                    |          |
| 2332           | 96  | 81/04/06                  | 0848:30                  | 0853:45                 | 480             | 89                  | 4994            | 2               |                          |          |
| 2333           | 96  | 81/04/06                  | 2202:30                  | 2203:40                 | 190             | 64                  |                 | 2               |                          |          |
| 2334           | 96  | 81/04/06                  | 2323:15                  | 2323:25                 | 45              | 59                  |                 | 2               |                          |          |
| 2335           | 97  | 81/04/07                  | 0103:15                  | 0103:45                 | 98              | 746                 | 20953           | 5               | 84, 6                    | M        |
| 2336           | 97  | 81/04/07                  | 0115:10                  | 0118:25                 | 234             | 968                 | 67952           | 5               | 84, 6                    | EN       |
| 2337           | 97  | 81/04/07                  | 0422:30                  | 0426:30                 | 461             | 160                 | 15815           | 2               | 84, 7                    | M ,EN    |
| 2338           | 97  | 81/04/07                  | 1825:45                  | 1826:30                 | 89              | 297                 | 3577            | 5               | 84, 8                    |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 2339           | 97  | 81/04/07                  | 1834:10                  | 1836:20                 | 559             | 110                 | 13171           | 2               | 84, 8                    |        |
| 2340           | 97  | 81/04/07                  | 1952:15                  | 1953:10                 | 165             | 85                  |                 | 2               |                          |        |
| 2341           | 97  | 81/04/07                  | 2012:50                  | 2013:25                 | 50              | 96                  |                 | 2               | 84, 9                    |        |
| 2342           | 97  | 81/04/07                  | 2015:00                  | 2015:30                 | 118             | 166                 | 1800            | 2               | 84, 9                    |        |
| 2343           | 98  | 81/04/08                  | 0041:10                  | 0044:40                 | 258             | 852                 | 12568           | 5               | 84, 10                   |        |
| 2344           | 98  | 81/04/08                  | 0541:35                  | 0543:15                 | 154             | 166                 | 2581            | 2               | 84, 11                   | M      |
| 2345           | 98  | 81/04/08                  | 0841:50                  | 0843:30                 | 152             | 153                 | 3839            | 2               | 84, 12                   |        |
| 2346           | 98  | 81/04/08                  | 1026:40                  | 1028:00                 | 118             | 365                 | 2906            | 5               | 84, 13                   | FS     |
| 2347           | 98  | 81/04/08                  | 1258:00                  | 1259:10                 | 109             | 1208                | 13661           | 10              | 84, 14                   | SN     |
| 2348           | 98  | 81/04/08                  | 1624:10                  | 1637:00                 | 2644            | 417                 | 2.32E+05        | 5               | 84, 15                   | M      |
| 2349           | 98  | 81/04/08                  | 1759:45                  | 1804:45                 | 1098            | 88                  | 7133            | 2               | 84, 16                   |        |
| 2350           | 98  | 81/04/08                  | 1836:20                  | 1836:40                 | 65              | 95                  |                 | 2               |                          |        |
| 2351           | 98  | 81/04/08                  | 1926:55                  | 1927:35                 | 75              | 63                  |                 | 2               |                          |        |
| 2352           | 98  | 81/04/08                  | 1956:45                  | 2005:10                 | 555             | 71                  | 2732            | 2               | 85, 1                    |        |
| 2353           | 98  | 81/04/08                  | 2238:25                  | 2238:45                 | 34              | 286                 | 2392            | 5               | 85, 2                    |        |
| 2354           | 98  | 81/04/08                  | 2317:45                  | 2319:30                 | 190             | 99                  |                 | 2               |                          |        |
| 2355           | 98  | 81/04/08                  | 2328:15                  | 2328:50                 | 140             | 174                 | 8482            | 2               | 85, 3                    |        |
| 2356           | 99  | 81/04/09                  | 0353:35                  | 0354:00                 | 110             | 89                  |                 | 2               |                          |        |
| 2357           | 99  | 81/04/09                  | 0359:40                  | 0400:05                 | 40              | 76                  |                 | 2               |                          |        |
| 2358           | 99  | 81/04/09                  | 1004:45                  | 1005:45                 | 70              | 98                  |                 | 2               |                          |        |
| 2359           | 99  | 81/04/09                  | 1322:10                  | 1322:20                 | 25              | 73                  |                 | 2               |                          |        |
| 2360           | 99  | 81/04/09                  | 1443:40                  | 1445:10                 | 197             | 85                  |                 | 2               |                          |        |
| 2361           | 99  | 81/04/09                  | 1650:45                  | 1650:55                 | 60              | 72                  |                 | 2               |                          |        |
| 2362           | 99  | 81/04/09                  | 1655:45                  | 1700:10                 | 360             | 333                 | 44367           | 2               | 85, 4                    |        |
| 2363           | 99  | 81/04/09                  | 1821:55                  | 1832:20                 | 913             | 355                 | 65353           | 10              | 85, 5                    | M      |
| 2364           | 99  | 81/04/09                  | 2118:55                  | 2121:00                 | 195             | 60                  |                 | 2               |                          |        |
| 2365           | 99  | 81/04/09                  | 2145:00                  | 2147:35                 | 190             | 67                  |                 | 2               |                          |        |
| 2366           | 99  | 81/04/09                  | 2255:45                  | 2257:45                 | 160             | 54                  |                 | 2               |                          |        |
| 2367           | 100 | 81/04/10                  | 0346:15                  | 0346:30                 | 20              | 71                  |                 | 2               |                          |        |
| 2368           | 100 | 81/04/10                  | 0515:35                  | 0517:05                 | 185             | 105                 | 3213            | 2               | 85, 6                    |        |
| 2369           | 100 | 81/04/10                  | 0527:40                  | 0532:15                 | 820             | 79                  | 3828            | 2               | 85, 7                    |        |
| 2370           | 100 | 81/04/10                  | 0656:30                  | 0657:10                 | 74              | 149                 | 1501            | 5               | 85, 8                    |        |
| 2371           | 100 | 81/04/10                  | 1108:50                  | 1109:15                 | 1825            | 2098                | 1.20E+05        | 5               | 85, 9                    | SN, ES |
| 2372           | 100 | 81/04/10                  | 1459:10                  | 1500:20                 | 150             | 91                  |                 | 2               |                          |        |
| 2373           | 100 | 81/04/10                  | 1633:40                  | 1651:15                 | 1360            | 11879               | 3.63E+06        | 15              | 85, 10                   | M      |
| 2374           | 100 | 81/04/10                  | 1730:40                  | 1739:55                 | 1390            | 98                  | 12018           | 5               | 85, 11                   |        |
| 2375           | 100 | 81/04/10                  | 1824:30                  | 1825:30                 | 382             | 1221                | 49531           | 10              | 85, 12                   |        |
| 2376           | 100 | 81/04/10                  | 1906:40                  | 1912:10                 | 1555            | 161                 | 26980           | 2               | 85, 13                   |        |
| 2377           | 100 | 81/04/10                  | 2226:55                  | 2227:05                 | 25              | 84                  |                 | 2               |                          |        |
| 2378           | 100 | 81/04/10                  | 2255:30                  | 2256:35                 | 150             | 810                 | 13604           | 5               | 85, 14                   | M      |
| 2379           | 101 | 81/04/11                  | 0030:15                  | 0031:15                 | 290             | 120                 | 3181            | 2               | 85, 16                   |        |
| 2380           | 101 | 81/04/11                  | 0456:45                  | 0500:50                 | 695             | 81                  | 5359            | 2               | 86, 1                    |        |
| 2381           | 101 | 81/04/11                  | 0537:40                  | 0538:25                 | 120             | 74                  |                 | 2               |                          |        |
| 2382           | 101 | 81/04/11                  | 0828:10                  | 0829:10                 | 125             | 97                  |                 | 2               |                          |        |
| 2383           | 101 | 81/04/11                  | 0950:55                  | 0951:25                 | 63              | 120                 | 1050            | 2               | 86, 2                    |        |
| 2384           | 101 | 81/04/11                  | 1009:20                  | 1009:30                 | 20              | 72                  |                 | 2               |                          |        |
| 2385           | 101 | 81/04/11                  | 1014:40                  | 1017:35                 | 355             | 432                 | 9740            | 5               | 86, 3                    |        |
| 2386           | 101 | 81/04/11                  | 1150:55                  | 1151:30                 | 55              | 93                  |                 | 2               |                          |        |
| 2387           | 101 | 81/04/11                  | 1302:15                  | 1302:40                 | 40              | 260                 | 1964            | 5               | 86, 4                    |        |
| 2388           | 101 | 81/04/11                  | 1302:55                  | 1303:15                 | 49              | 212                 | 1744            | 2               | 86, 4                    |        |
| 2389           | 101 | 81/04/11                  | 1303:45                  | 1304:20                 | 80              | 97                  |                 | 2               | 86, 4                    |        |
| 2390           | 101 | 81/04/11                  | 1333:25                  | 1334:55                 | 261             | 378                 | 16303           | 5               | 86, 5                    |        |
| 2391           | 101 | 81/04/11                  | 1629:40                  | 1630:15                 | 55              | 82                  |                 | 2               |                          |        |
| 2392           | 101 | 81/04/11                  | 1644:15                  | 1644:40                 | 138             | 69                  |                 | 2               | 86, 6                    |        |
| 6305           | 101 | 81/04/11                  | 2033:23                  | 2033:47                 | 73              | 91                  |                 | 5               |                          | I      |
| 2393           | 101 | 81/04/11                  | 2259:45                  | 2300:15                 | 120             | 60                  |                 | 2               |                          | EW     |
| 2394           | 101 | 81/04/11                  | 2302:40                  | 2303:00                 | 150             | 76                  |                 | 2               |                          | EW     |
| 2395           | 101 | 81/04/11                  | 2349:55                  | 2351:15                 | 150             | 75                  |                 | 2               |                          |        |
| 2396           | 102 | 81/04/12                  | 0000:15                  | 0001:10                 | 209             | 280                 | 11417           | 2               | 86, 7                    |        |
| 2397           | 102 | 81/04/12                  | 0009:05                  | 0009:25                 | 85              | 80                  |                 | 2               |                          |        |
| 2398           | 102 | 81/04/12                  | 0128:00                  | 0128:05                 | 17              | 102                 | 410             | 2               | 86, 8                    |        |
| 2399           | 102 | 81/04/12                  | 0131:10                  | 0134:40                 | 398             | 1043                | 46990           | 5               | 86, 8                    |        |
| 2400           | 102 | 81/04/12                  | 0143:40                  | 0147:50                 | 313             | 259                 | 5382            | 5               | 86, 9                    |        |
| 2401           | 102 | 81/04/12                  | 0155:20                  | 0155:55                 | 60              | 77                  |                 | 2               |                          |        |
| 2402           | 102 | 81/04/12                  | 0157:20                  | 0157:50                 | 125             | 72                  |                 | 2               |                          |        |
| 2403           | 102 | 81/04/12                  | 0206:00                  | 0207:20                 | 145             | 99                  |                 | 2               |                          | EW     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2404           | 102 | 81/04/12                  | 0303:05                  | 0305:40                 | 290             | 152                 | 3507            | 2               | 86, 10                   | SN    |
| 2405           | 102 | 81/04/12                  | 0310:20                  | 0311:00                 | 208             | 219                 | 6880            | 2               | 86, 10                   |       |
| 2406           | 102 | 81/04/12                  | 0314:10                  | 0314:40                 | 120             | 822                 | 12984           | 5               | 86, 10                   |       |
| 2407           | 102 | 81/04/12                  | 0649:35                  | 0651:05                 | 150             | 81                  |                 | 2               |                          | EW    |
| 6306           | 102 | 81/04/12                  | 0830:43                  | 0830:56                 | 67              | 60                  |                 | 2               |                          | I     |
| 6307           | 102 | 81/04/12                  | 0835:48                  | 0835:57                 | 75              | 63                  |                 | 2               |                          | I     |
| 6308           | 102 | 81/04/12                  | 1016:26                  | 1016:49                 | 93              | 55                  |                 | 2               |                          | I     |
| 2408           | 102 | 81/04/12                  | 1242:05                  | 1246:35                 | 506             | 182                 | 18732           | 2               | 86, 11                   |       |
| 2409           | 102 | 81/04/12                  | 1307:40                  | 1307:50                 | 25              | 71                  |                 | 2               |                          |       |
| 2410           | 102 | 81/04/12                  | 1450:20                  | 1450:55                 | 120             | 65                  |                 | 2               |                          | EW    |
| 2411           | 102 | 81/04/12                  | 1602:30                  | 1606:45                 | 330             | 1193                | 21649           | 10              | 86, 12                   |       |
| 6310           | 102 | 81/04/12                  | 1730:42                  | 1731:26                 | 88              | 60                  |                 | 2               |                          | I     |
| 6311           | 102 | 81/04/12                  | 1810:21                  | 1810:57                 | 76              | 73                  |                 | 2               |                          | I     |
| 6312           | 102 | 81/04/12                  | 1814:16                  | 1814:41                 | 62              | 50                  |                 | 2               |                          | I     |
| 6313           | 102 | 81/04/12                  | 1944:32                  | 1945:07                 | 523             | 62                  | 4591            | 2               | 196, 1                   | I     |
| 6314           | 102 | 81/04/12                  | 2104:00                  | 2107:03                 | 871             | 69                  | 7170            | 3               | 196, 2                   | I     |
| 2412           | 102 | 81/04/12                  | 2215:15                  | 2216:20                 | 135             | 78                  |                 | 2               |                          |       |
| 2413           | 102 | 81/04/12                  | 2226:30                  | 2227:25                 | 362             | 1164                | 59087           | 10              | 86, 14                   | M     |
| 2414           | 102 | 81/04/12                  | 2303:15                  | 2304:10                 | 65              | 90                  |                 | 2               |                          |       |
| 2415           | 103 | 81/04/13                  | 0202:20                  | 0202:40                 | 65              | 106                 | 1566            | 2               | 86, 16                   |       |
| 2416           | 103 | 81/04/13                  | 0207:55                  | 0208:10                 | 73              | 104                 | 1962            | 2               | 86, 16                   |       |
| 6316           | 103 | 81/04/13                  | 0329:08                  | 0338:41                 | 961             | 82                  | 10389           | 3               | 196, 3                   | I     |
| 6318           | 103 | 81/04/13                  | 0636:59                  | 0637:15                 | 30              | 67                  |                 | 2               |                          | I     |
| 2417           | 103 | 81/04/13                  | 0754:50                  | 0755:45                 | 175             | 66                  |                 | 2               |                          |       |
| 6320           | 103 | 81/04/13                  | 0928:55                  | 0929:25                 | 44              | 57                  |                 | 2               |                          | I     |
| 6321           | 103 | 81/04/13                  | 0930:10                  | 0930:44                 | 137             | 99                  |                 | 2               |                          | I     |
| 6322           | 103 | 81/04/13                  | 0934:40                  | 0934:52                 | 39              | 68                  |                 | 2               |                          | I     |
| 6323           | 103 | 81/04/13                  | 0938:25                  | 0938:35                 | 42              | 66                  |                 | 2               |                          | I     |
| 6324           | 103 | 81/04/13                  | 0951:23                  | 0951:54                 | 117             | 107                 | 1619            | 2               | 196, 4                   | I     |
| 6325           | 103 | 81/04/13                  | 0959:32                  | 0959:39                 | 18              | 75                  |                 | 2               |                          | I     |
| 6326           | 103 | 81/04/13                  | 1002:17                  | 1002:35                 | 38              | 66                  |                 | 2               |                          | I     |
| 6327           | 103 | 81/04/13                  | 1004:03                  | 1004:23                 | 40              | 77                  |                 | 2               |                          | I     |
| 6328           | 103 | 81/04/13                  | 1005:19                  | 1008:20                 | 494             | 211                 | 7598            | 3               | 196, 5                   | M, I  |
| 2418           | 103 | 81/04/13                  | 1135:00                  | 1135:20                 | 45              | 62                  |                 | 2               |                          |       |
| 6330           | 103 | 81/04/13                  | 1226:00                  | 1226:39                 | 69              | 80                  |                 | 2               |                          | I     |
| 6331           | 103 | 81/04/13                  | 1242:42                  | 1243:01                 | 57              | 60                  |                 | 2               |                          | I     |
| 6332           | 103 | 81/04/13                  | 1259:40                  | 1300:09                 | 62              | 91                  |                 | 2               |                          | I     |
| 6333           | 103 | 81/04/13                  | 1309:12                  | 1309:25                 | 102             | 106                 | 1248            | 2               | 196, 6                   | I     |
| 2419           | 103 | 81/04/13                  | 1427:05                  | 1431:10                 | 363             | 126                 | 3681            | 5               | 87, 1                    |       |
| 2420           | 103 | 81/04/13                  | 1445:35                  | 1445:50                 | 70              | 78                  |                 | 3               |                          |       |
| 2421           | 103 | 81/04/13                  | 1729:15                  | 1729:25                 | 20              | 90                  |                 | 2               |                          |       |
| 2422           | 104 | 81/04/14                  | 0646:35                  | 0646:50                 | 40              | 68                  |                 | 2               |                          |       |
| 6317           | 104 | 81/04/14                  | 0920:54                  | 0921:09                 | 39              | 91                  |                 | 2               |                          | I     |
| 6329           | 104 | 81/04/14                  | 0948:57                  | 0949:14                 | 38              | 83                  |                 | 2               |                          | I     |
| 2423           | 104 | 81/04/14                  | 1240:00                  | 1240:50                 | 187             | 84                  |                 | 2               |                          |       |
| 2424           | 104 | 81/04/14                  | 1533:45                  | 1537:45                 | 333             | 95                  | 1465            | 2               | 87, 2                    |       |
| 2425           | 104 | 81/04/14                  | 1753:40                  | 1753:50                 | 20              | 58                  |                 | 2               |                          |       |
| 2426           | 104 | 81/04/14                  | 1841:10                  | 1842:10                 | 150             | 63                  |                 | 2               |                          |       |
| 2427           | 104 | 81/04/14                  | 1848:40                  | 1849:35                 | 258             | 80                  | 3933            | 2               | 87, 3                    |       |
| 2428           | 104 | 81/04/14                  | 1908:00                  | 1910:10                 | 165             | 59                  |                 | 2               |                          |       |
| 2429           | 104 | 81/04/14                  | 2035:15                  | 2035:45                 | 65              | 69                  |                 | 2               |                          |       |
| 2430           | 104 | 81/04/14                  | 2037:15                  | 2039:35                 | 135             | 58                  |                 | 3               |                          |       |
| 2431           | 104 | 81/04/14                  | 2042:20                  | 2042:35                 | 90              | 95                  |                 | 2               |                          |       |
| 2432           | 104 | 81/04/14                  | 2047:55                  | 2050:25                 | 264             | 749                 | 11714           | 9               | 87, 4                    |       |
| 2433           | 104 | 81/04/14                  | 2056:00                  | 2058:40                 | 252             | 87                  | 4754            | 6               | 87, 5                    |       |
| 2434           | 104 | 81/04/14                  | 2216:35                  | 2218:40                 | 242             | 121                 | 12707           | 2               | 87, 6                    |       |
| 2435           | 104 | 81/04/14                  | 2327:55                  | 2340:00                 | 3306            | 1794                | 7.67E+05        | 12              | 87, 7                    | M     |
| 2436           | 105 | 81/04/15                  | 0114:55                  | 0116:10                 | 215             | 100                 | 3803            | 2               | 87, 8                    |       |
| 2437           | 105 | 81/04/15                  | 0325:25                  | 0325:45                 | 40              | 61                  |                 | 2               |                          |       |
| 2438           | 105 | 81/04/15                  | 0430:25                  | 0430:50                 | 75              | 71                  |                 | 2               |                          |       |
| 2439           | 105 | 81/04/15                  | 0559:55                  | 0601:20                 | 150             | 743                 | 9044            | 7               | 87, 9                    |       |
| 2440           | 105 | 81/04/15                  | 0636:55                  | 0638:40                 | 180             | 90                  |                 | 2               | 87, 10                   |       |
| 2441           | 105 | 81/04/15                  | 0641:25                  | 0643:45                 | 417             | 5290                | 1.27E+05        | 10              | 87, 10                   |       |
| 2442           | 105 | 81/04/15                  | 0805:10                  | 0806:15                 | 60              | 93                  |                 | 2               |                          |       |
| 2443           | 105 | 81/04/15                  | 1212:50                  | 1213:35                 | 124             | 104                 | 1940            | 2               | 87, 11                   |       |
| 2444           | 105 | 81/04/15                  | 1233:00                  | 1235:15                 | 190             | 70                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2445           | 105 | 81/04/15                  | 1258:50                  | 1259:15                 | 36              | 240                 | 1667            | 4               | 87, 12                   |       |
| 2446           | 105 | 81/04/15                  | 1303:45                  | 1304:15                 | 90              | 90                  |                 | 3               |                          |       |
| 2447           | 105 | 81/04/15                  | 1354:00                  | 1354:30                 | 60              | 62                  |                 | 2               |                          |       |
| 6617           | 105 | 81/04/15                  | 1411:23                  | 1411:26                 | 6               | 61                  |                 | 2               |                          |       |
| 2448           | 105 | 81/04/15                  | 1522:40                  | 1527:50                 | 622             | 143                 | 9522            | 5               | 88, 1                    |       |
| 2449           | 105 | 81/04/15                  | 1705:30                  | 1707:45                 | 420             | 406                 | 13147           | 7               | 88, 2                    |       |
| 2450           | 105 | 81/04/15                  | 1856:10                  | 1856:15                 | 40              | 59                  |                 | 2               |                          |       |
| 2451           | 105 | 81/04/15                  | 1918:45                  | 1919:25                 | 83              | 478                 | 4312            | 11              | 88, 3                    |       |
| 2452           | 105 | 81/04/15                  | 1923:00                  | 1923:25                 | 35              | 78                  |                 | 2               |                          |       |
| 2453           | 105 | 81/04/15                  | 2022:05                  | 2022:20                 | 35              | 64                  |                 | 2               |                          |       |
| 2454           | 105 | 81/04/15                  | 2331:20                  | 2331:45                 | 100             | 63                  |                 | 2               |                          |       |
| 2455           | 106 | 81/04/16                  | 0113:35                  | 0114:30                 | 551             | 247                 | 20484           | 4               | 88, 4                    |       |
| 2456           | 106 | 81/04/16                  | 0255:25                  | 0256:00                 | 73              | 350                 | 6187            | 7               | 88, 5                    |       |
| 2457           | 106 | 81/04/16                  | 0316:55                  | 0317:25                 | 131             | 111                 | 1042            | 2               | 88, 6                    |       |
| 2458           | 106 | 81/04/16                  | 0411:50                  | 0412:10                 | 30              | 72                  |                 | 2               |                          |       |
| 2459           | 106 | 81/04/16                  | 0502:00                  | 0503:55                 | 145             | 63                  |                 | 2               |                          |       |
| 2460           | 106 | 81/04/16                  | 1534:50                  | 1535:20                 | 60              | 64                  |                 | 2               |                          |       |
| 2461           | 106 | 81/04/16                  | 2356:00                  | 2356:20                 | 45              | 61                  |                 | 2               |                          |       |
| 2462           | 107 | 81/04/17                  | 0408:05                  | 0409:50                 | 223             | 150                 | 3909            | 3               | 88, 7                    |       |
| 6337           | 107 | 81/04/17                  | 0859:28                  | 0859:56                 | 80              | 65                  |                 | 2               |                          | I     |
| 6338           | 107 | 81/04/17                  | 0931:09                  | 0931:36                 | 47              | 83                  |                 | 2               |                          | I     |
| 6339           | 107 | 81/04/17                  | 1214:43                  | 1218:44                 | 2619            | 77                  | 25043           | 2               | 196, 8                   | I     |
| 2464           | 107 | 81/04/17                  | 1423:00                  | 1424:15                 | 277             | 1325                | 1.14E+05        | 6               | 88, 8                    |       |
| 2465           | 107 | 81/04/17                  | 1648:30                  | 1648:55                 | 55              | 58                  |                 | 2               |                          |       |
| 2466           | 107 | 81/04/17                  | 1829:05                  | 1830:40                 | 185             | 73                  |                 | 2               |                          |       |
| 2467           | 107 | 81/04/17                  | 1834:30                  | 1834:45                 | 60              | 110                 | 1028            | 7               | 88, 9                    |       |
| 2468           | 107 | 81/04/17                  | 2310:00                  | 2310:30                 | 85              | 64                  |                 | 2               |                          |       |
| 2469           | 108 | 81/04/18                  | 0130:55                  | 0136:10                 | 696             | 1117                | 1.60E+05        | 5               | 88, 10                   | M, EN |
| 2470           | 108 | 81/04/18                  | 0303:35                  | 0304:00                 | 84              | 134                 | 1863            | 3               | 88, 11                   |       |
| 6342           | 108 | 81/04/18                  | 0439:49                  | 0440:20                 | 64              | 70                  |                 | 2               |                          | I     |
| 6343           | 108 | 81/04/18                  | 0547:32                  | 0547:48                 | 37              | 108                 | 621             | 2               | 196, 9                   | I     |
| 6344           | 108 | 81/04/18                  | 0549:28                  | 0549:37                 | 89              | 225                 | 1941            | 2               | 196, 9                   | I     |
| 6345           | 108 | 81/04/18                  | 0559:45                  | 0604:34                 | 1540            | 377                 | 1.11E+05        | 2               | 196, 9                   | I     |
| 6346           | 108 | 81/04/18                  | 0710:47                  | 0717:57                 | 1163            | 88                  | 16499           | 2               | 196, 10                  | I     |
| 2471           | 108 | 81/04/18                  | 1030:00                  | 1030:25                 | 55              | 74                  |                 | 2               |                          |       |
| 2472           | 108 | 81/04/18                  | 1048:45                  | 1051:25                 | 1185            | 4160                | 8.33E+05        | 8               | 88, 12                   | M     |
| 2473           | 108 | 81/04/18                  | 1701:45                  | 1703:20                 | 228             | 70                  | 2902            | 2               | 88, 13                   |       |
| 2474           | 108 | 81/04/18                  | 1720:10                  | 1721:45                 | 130             | 59                  |                 | 2               |                          |       |
| 2475           | 109 | 81/04/19                  | 0119:45                  | 0119:50                 | 40              | 76                  |                 | 2               |                          |       |
| 2476           | 109 | 81/04/19                  | 0246:00                  | 0246:20                 | 40              | 74                  |                 | 2               |                          |       |
| 2477           | 109 | 81/04/19                  | 0859:10                  | 0900:25                 | 85              | 74                  |                 | 2               |                          |       |
| 2478           | 109 | 81/04/19                  | 0914:25                  | 0914:35                 | 35              | 64                  |                 | 2               |                          |       |
| 2479           | 109 | 81/04/19                  | 1036:05                  | 1036:35                 | 50              | 85                  |                 | 2               |                          |       |
| 2480           | 109 | 81/04/19                  | 1050:20                  | 1050:45                 | 55              | 65                  |                 | 2               |                          |       |
| 2481           | 109 | 81/04/19                  | 1154:00                  | 1154:30                 | 45              | 66                  |                 | 2               |                          |       |
| 2482           | 109 | 81/04/19                  | 1241:40                  | 1242:20                 | 67              | 400                 | 3191            | 5               | 88, 14                   |       |
| 2483           | 109 | 81/04/19                  | 1411:10                  | 1411:55                 | 175             | 66                  |                 | 2               |                          |       |
| 2484           | 109 | 81/04/19                  | 1515:55                  | 1517:40                 | 263             | 90                  | 4006            | 2               | 88, 15                   |       |
| 2485           | 109 | 81/04/19                  | 1534:30                  | 1538:15                 | 401             | 1028                | 27438           | 6               | 88, 16                   |       |
| 2486           | 109 | 81/04/19                  | 1543:05                  | 1544:10                 | 95              | 164                 | 3527            | 3               | 88, 16                   |       |
| 2487           | 109 | 81/04/19                  | 1652:00                  | 1653:15                 | 145             | 76                  |                 | 3               |                          |       |
| 2488           | 109 | 81/04/19                  | 1710:20                  | 1711:40                 | 497             | 192                 | 12939           | 3               | 89, 1                    |       |
| 2489           | 109 | 81/04/19                  | 1719:15                  | 1719:50                 | 70              | 66                  |                 | 2               |                          |       |
| 2490           | 109 | 81/04/19                  | 2316:15                  | 2316:55                 | 100             | 84                  |                 | 2               |                          |       |
| 2491           | 110 | 81/04/20                  | 0229:00                  | 0229:40                 | 110             | 119                 | 2418            | 3               | 89, 2                    |       |
| 2492           | 110 | 81/04/20                  | 0231:35                  | 0232:05                 | 130             | 75                  |                 | 2               |                          |       |
| 2493           | 110 | 81/04/20                  | 0343:25                  | 0344:00                 | 173             | 117                 | 1767            | 3               | 89, 3                    |       |
| 2494           | 110 | 81/04/20                  | 1057:15                  | 1058:35                 | 286             | 977                 | 63032           | 7               | 89, 4                    | FS    |
| 2495           | 110 | 81/04/20                  | 1624:35                  | 1629:20                 | 720             | 259                 | 33135           | 3               | 89, 5                    |       |
| 2496           | 110 | 81/04/20                  | 2118:05                  | 2118:40                 | 60              | 95                  |                 | 2               |                          |       |
| 2497           | 111 | 81/04/21                  | 0907:50                  | 0908:25                 | 63              | 267                 | 4264            | 3               | 89, 6                    |       |
| 2498           | 111 | 81/04/21                  | 1337:10                  | 1337:25                 | 60              | 98                  |                 | 2               |                          |       |
| 6352           | 112 | 81/04/22                  | 0228:49                  | 0229:05                 | 57              | 65                  |                 | 2               |                          | I     |
| 6353           | 112 | 81/04/22                  | 0713:13                  | 0714:17                 | 115             | 124                 | 2174            | 2               | 196, 12                  | I     |
| 2499           | 112 | 81/04/22                  | 1341:50                  | 1342:25                 | 47              | 109                 | 751             | 3               | 89, 7                    |       |
| 2500           | 112 | 81/04/22                  | 1513:40                  | 1513:55                 | 35              | 68                  |                 | 2               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 2501           | 112 | 81/04/22                  | 1806:35                  | 1818:25                 | 1081            | 147                 | 19671           | 2               | 89, 8                    |          |
| 2502           | 112 | 81/04/22                  | 1945:40                  | 1946:50                 | 80              | 72                  |                 | 2               |                          |          |
| 2503           | 112 | 81/04/22                  | 2001:50                  | 2002:55                 | 115             | 207                 | 4797            | 3               | 89, 9                    | M, ES    |
| 2504           | 112 | 81/04/22                  | 2257:50                  | 2300:15                 | 238             | 209                 | 12509           | 3               | 89, 10                   |          |
| 2505           | 113 | 81/04/23                  | 0008:15                  | 0008:30                 | 559             | 99                  | 5182            | 2               | 89, 11                   |          |
| 2506           | 113 | 81/04/23                  | 0029:45                  | 0032:15                 | 725             | 305                 | 38377           | 6               | 89, 11                   | M        |
| 2507           | 113 | 81/04/23                  | 0231:35                  | 0232:35                 | 253             | 120                 | 5726            | 2               | 89, 12                   |          |
| 2508           | 113 | 81/04/23                  | 0706:20                  | 0707:10                 | 105             | 61                  |                 | 2               |                          |          |
| 2509           | 113 | 81/04/23                  | 1009:15                  | 1010:30                 | 70              | 71                  |                 | 2               |                          |          |
| 2510           | 113 | 81/04/23                  | 1142:05                  | 1142:30                 | 35              | 88                  |                 | 2               |                          |          |
| 2511           | 113 | 81/04/23                  | 1304:15                  | 1305:00                 | 110             | 116                 | 6035            | 2               | 89, 13                   |          |
| 2512           | 113 | 81/04/23                  | 1616:25                  | 1617:50                 | 191             | 105                 | 3763            | 6               | 89, 14                   |          |
| 2513           | 113 | 81/04/23                  | 1637:10                  | 1638:00                 | 90              | 65                  |                 | 2               |                          |          |
| 2514           | 113 | 81/04/23                  | 1741:20                  | 1741:55                 | 85              | 85                  |                 | 2               |                          |          |
| 2515           | 113 | 81/04/23                  | 1933:25                  | 1933:45                 | 100             | 95                  |                 | 2               |                          |          |
| 2516           | 113 | 81/04/23                  | 2053:55                  | 2054:45                 | 118             | 115                 | 3116            | 2               | 89, 15                   |          |
| 2517           | 114 | 81/04/24                  | 0023:10                  | 0023:40                 | 70              | 92                  |                 | 2               |                          |          |
| 2518           | 114 | 81/04/24                  | 0041:50                  | 0045:50                 | 549             | 508                 | 29095           | 4               | 89, 16                   |          |
| 2519           | 114 | 81/04/24                  | 0054:05                  | 0054:45                 | 85              | 82                  |                 | 2               |                          |          |
| 2520           | 114 | 81/04/24                  | 0135:50                  | 0143:15                 | 3342            | 11690               | 4.46E+06        | 5               | 90, 1                    | M, SN    |
| 2521           | 114 | 81/04/24                  | 0325:45                  | 0326:55                 | 768             | 74                  | 2754            | 2               | 90, 2                    |          |
| 2522           | 114 | 81/04/24                  | 0459:50                  | 0500:15                 | 69              | 168                 | 2054            | 2               | 90, 3                    |          |
| 2523           | 114 | 81/04/24                  | 0502:40                  | 0506:35                 | 324             | 142                 | 1966            | 2               | 90, 3                    |          |
| 2524           | 114 | 81/04/24                  | 0839:45                  | 0839:55                 | 15              | 74                  |                 | 2               |                          |          |
| 2525           | 114 | 81/04/24                  | 0844:10                  | 0853:40                 | 836             | 314                 | 75228           | 3               | 90, 4                    | M, EN    |
| 6354           | 114 | 81/04/24                  | 0934:52                  | 0935:10                 | 61              | 100                 | 754             | 2               |                          | I        |
| 6355           | 114 | 81/04/24                  | 0946:13                  | 0946:24                 | 42              | 79                  |                 | 2               |                          | I        |
| 6356           | 114 | 81/04/24                  | 0948:34                  | 0948:45                 | 18              | 68                  |                 | 2               |                          | I        |
| 6357           | 114 | 81/04/24                  | 0952:42                  | 0952:59                 | 98              | 64                  |                 | 2               |                          | I        |
| 6358           | 114 | 81/04/24                  | 0957:44                  | 0958:34                 | 98              | 77                  |                 | 2               |                          | I        |
| 6359           | 114 | 81/04/24                  | 1000:37                  | 1001:01                 | 27              | 78                  |                 | 2               |                          | I        |
| 2526           | 114 | 81/04/24                  | 1110:10                  | 1110:15                 | 20              | 70                  |                 | 2               |                          |          |
| 2527           | 114 | 81/04/24                  | 1112:35                  | 1112:50                 | 53              | 128                 | 1377            | 2               | 90, 5                    |          |
| 2528           | 114 | 81/04/24                  | 1116:40                  | 1117:55                 | 120             | 92                  |                 | 2               |                          |          |
| 2529           | 114 | 81/04/24                  | 1120:15                  | 1120:25                 | 40              | 62                  |                 | 2               |                          |          |
| 2530           | 114 | 81/04/24                  | 1123:25                  | 1124:30                 | 121             | 110                 | 2324            | 2               | 90, 5                    |          |
| 2531           | 114 | 81/04/24                  | 1303:00                  | 1303:25                 | 50              | 74                  |                 | 2               |                          |          |
| 2532           | 114 | 81/04/24                  | 1322:50                  | 1323:05                 | 105             | 99                  |                 | 2               |                          |          |
| 2533           | 114 | 81/04/24                  | 1324:35                  | 1325:35                 | 60              | 99                  |                 | 3               |                          |          |
| 2534           | 114 | 81/04/24                  | 1334:10                  | 1334:30                 | 80              | 68                  |                 | 2               |                          |          |
| 4397           | 114 | 81/04/24                  | 1420:45                  | 1434:55                 | 3428            | 1794                | 1.07E+06        | 14              | 146, 7                   | M, I, SN |
| 2535           | 114 | 81/04/24                  | 1620:25                  | 1620:35                 | 20              | 77                  |                 | 2               |                          |          |
| 2536           | 114 | 81/04/24                  | 1740:40                  | 1741:30                 | 90              | 65                  |                 | 2               |                          |          |
| 2537           | 114 | 81/04/24                  | 2103:45                  | 2103:55                 | 25              | 60                  |                 | 2               |                          |          |
| 2538           | 114 | 81/04/24                  | 2112:05                  | 2112:50                 | 182             | 250                 | 6197            | 3               | 90, 6                    |          |
| 2539           | 114 | 81/04/24                  | 2116:05                  | 2116:15                 | 20              | 81                  |                 | 2               |                          |          |
| 2540           | 114 | 81/04/24                  | 2226:15                  | 2226:25                 | 25              | 71                  |                 | 2               | 90, 7                    |          |
| 2541           | 114 | 81/04/24                  | 2228:20                  | 2228:55                 | 138             | 128                 | 1742            | 2               | 90, 7                    |          |
| 2542           | 115 | 81/04/25                  | 0019:25                  | 0019:35                 | 20              | 361                 | 1337            | 3               | 90, 8                    |          |
| 2543           | 115 | 81/04/25                  | 0030:20                  | 0030:40                 | 60              | 140                 | 1572            | 2               | 90, 9                    |          |
| 2544           | 115 | 81/04/25                  | 0032:00                  | 0033:40                 | 130             | 82                  |                 | 2               | 90, 9                    |          |
| 2545           | 115 | 81/04/25                  | 0046:40                  | 0046:55                 | 45              | 543                 | 2516            | 5               | 90, 10                   |          |
| 2546           | 115 | 81/04/25                  | 0154:40                  | 0154:50                 | 40              | 100                 | 523             | 2               |                          |          |
| 2547           | 115 | 81/04/25                  | 0209:05                  | 0209:30                 | 53              | 113                 | 727             | 2               | 90, 11                   |          |
| 2548           | 115 | 81/04/25                  | 0221:00                  | 0221:10                 | 24              | 195                 | 806             | 4               | 90, 12                   |          |
| 2549           | 115 | 81/04/25                  | 0510:35                  | 0511:05                 | 1008            | 845                 | 14729           | 4               | 90, 13                   | M        |
| 2550           | 115 | 81/04/25                  | 0527:55                  | 0528:40                 | 96              | 535                 | 2125            | 3               | 90, 13                   |          |
| 2551           | 115 | 81/04/25                  | 0530:10                  | 0531:35                 | 180             | 298                 | 2205            | 3               | 90, 13                   |          |
| 2552           | 115 | 81/04/25                  | 0539:25                  | 0540:00                 | 86              | 103                 | 5624            | 5               | 90, 13                   |          |
| 2553           | 115 | 81/04/25                  | 0628:30                  | 0628:45                 | 77              | 150                 | 1616            | 2               | 90, 14                   |          |
| 2554           | 115 | 81/04/25                  | 0653:10                  | 0654:40                 | 122             | 122                 | 1476            | 2               | 90, 15                   |          |
| 2555           | 115 | 81/04/25                  | 0655:20                  | 0656:15                 | 100             | 106                 | 1090            | 2               | 90, 15                   |          |
| 6360           | 115 | 81/04/25                  | 0756:39                  | 0757:12                 | 127             | 73                  |                 | 2               |                          | I        |
| 6361           | 115 | 81/04/25                  | 0821:34                  | 0823:37                 | 178             | 74                  |                 | 4               |                          | I        |
| 2556           | 115 | 81/04/25                  | 0951:10                  | 0952:00                 | 180             | 86                  |                 | 2               |                          |          |
| 2557           | 115 | 81/04/25                  | 1001:05                  | 1001:30                 | 95              | 69                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2558           | 115 | 81/04/25                  | 1026:45                  | 1026:55                 | 40              | 66                  |                 | 2               |                          |       |
| 6362           | 115 | 81/04/25                  | 1145:33                  | 1145:47                 | 39              | 84                  |                 | 2               |                          | I     |
| 6364           | 115 | 81/04/25                  | 1237:57                  | 1238:31                 | 121             | 100                 | 1852            | 2               |                          | I     |
| 6365           | 115 | 81/04/25                  | 1246:22                  | 1246:55                 | 243             | 67                  | 1983            | 2               | 196, 13                  | I     |
| 6366           | 115 | 81/04/25                  | 1324:09                  | 1325:13                 | 152             | 146                 | 3425            | 2               | 196, 14                  | I     |
| 2559           | 115 | 81/04/25                  | 1548:50                  | 1553:10                 | 1279            | 366                 | 1.22E+05        | 3               | 90, 16                   | SN    |
| 2560           | 115 | 81/04/25                  | 1739:30                  | 1740:30                 | 190             | 146                 | 3648            | 3               | 91, 1                    |       |
| 2561           | 115 | 81/04/25                  | 1749:40                  | 1749:50                 | 30              | 73                  |                 | 2               |                          |       |
| 2562           | 115 | 81/04/25                  | 1751:25                  | 1753:10                 | 180             | 74                  |                 | 2               |                          |       |
| 2563           | 115 | 81/04/25                  | 2038:55                  | 2039:20                 | 170             | 74                  |                 | 2               |                          | EW    |
| 2564           | 115 | 81/04/25                  | 2043:10                  | 2044:20                 | 130             | 82                  |                 | 2               |                          |       |
| 2565           | 115 | 81/04/25                  | 2217:15                  | 2218:10                 | 100             | 90                  |                 | 2               |                          |       |
| 2566           | 115 | 81/04/25                  | 2234:35                  | 2235:10                 | 78              | 111                 | 988             | 2               | 91, 2                    |       |
| 2567           | 115 | 81/04/25                  | 2237:20                  | 2238:50                 | 155             | 86                  |                 | 2               |                          |       |
| 2568           | 116 | 81/04/26                  | 0001:55                  | 0003:40                 | 175             | 94                  |                 | 2               |                          |       |
| 2569           | 116 | 81/04/26                  | 0004:55                  | 0006:00                 | 100             | 94                  |                 | 2               |                          |       |
| 2570           | 116 | 81/04/26                  | 0015:05                  | 0017:05                 | 475             | 229                 | 22909           | 4               | 91, 3                    |       |
| 2571           | 116 | 81/04/26                  | 0028:15                  | 0028:30                 | 45              | 95                  |                 | 2               |                          |       |
| 2572           | 116 | 81/04/26                  | 0144:35                  | 0146:40                 | 561             | 162                 | 13829           | 2               | 91, 4                    |       |
| 2573           | 116 | 81/04/26                  | 0311:30                  | 0313:10                 | 263             | 370                 | 17832           | 5               | 91, 5                    |       |
| 2574           | 116 | 81/04/26                  | 0610:45                  | 0615:30                 | 711             | 560                 | 42838           | 2               | 91, 6                    |       |
| 2575           | 116 | 81/04/26                  | 0631:40                  | 0632:50                 | 228             | 471                 | 13346           | 4               | 91, 6                    |       |
| 2576           | 116 | 81/04/26                  | 0642:30                  | 0643:00                 | 160             | 61                  |                 | 2               |                          |       |
| 2577           | 116 | 81/04/26                  | 0938:10                  | 0939:20                 | 105             | 63                  |                 | 2               |                          |       |
| 2578           | 116 | 81/04/26                  | 1009:55                  | 1010:05                 | 20              | 86                  |                 | 2               |                          |       |
| 2579           | 116 | 81/04/26                  | 1054:50                  | 1148:10                 | 3629            | 7823                | 3.62E+06        | 15              | 91, 7                    | M ,EN |
| 2580           | 116 | 81/04/26                  | 1312:30                  | 1318:40                 | 640             | 70                  | 4150            | 5               | 91, 8                    |       |
| 2581           | 116 | 81/04/26                  | 1415:15                  | 1415:40                 | 155             | 94                  |                 | 4               |                          |       |
| 2582           | 116 | 81/04/26                  | 1431:40                  | 1432:25                 | 115             | 73                  |                 | 2               |                          |       |
| 2583           | 116 | 81/04/26                  | 1552:10                  | 1553:15                 | 105             | 69                  |                 | 2               |                          |       |
| 2584           | 116 | 81/04/26                  | 1735:55                  | 1739:20                 | 981             | 4922                | 4.13E+05        | 9               | 91, 9                    | M ,EN |
| 2585           | 116 | 81/04/26                  | 1917:25                  | 1918:20                 | 170             | 87                  |                 | 2               |                          |       |
| 2586           | 116 | 81/04/26                  | 1923:25                  | 1924:25                 | 110             | 76                  |                 | 2               |                          |       |
| 2587           | 116 | 81/04/26                  | 2101:50                  | 2102:05                 | 60              | 76                  |                 | 2               |                          |       |
| 2588           | 117 | 81/04/27                  | 0513:25                  | 0513:50                 | 50              | 96                  |                 | 2               |                          |       |
| 2589           | 117 | 81/04/27                  | 0740:55                  | 0812:55                 | 9052            | 56177               | 4.85E+07        | 15              | 198, 2                   | M     |
| 2590           | 117 | 81/04/27                  | 1404:15                  | 1404:55                 | 105             | 76                  |                 | 2               |                          |       |
| 2591           | 117 | 81/04/27                  | 1858:15                  | 1858:40                 | 95              | 97                  |                 | 2               |                          |       |
| 2592           | 118 | 81/04/28                  | 0500:20                  | 0500:30                 | 50              | 64                  |                 | 14              |                          |       |
| 2593           | 118 | 81/04/28                  | 2148:25                  | 2149:10                 | 2981            | 691                 | 5.12E+05        | 3               | 91, 10                   | M ,SN |
| 2594           | 119 | 81/04/29                  | 0728:45                  | 0729:25                 | 75              | 76                  |                 | 2               |                          |       |
| 2595           | 119 | 81/04/29                  | 0941:55                  | 0942:05                 | 30              | 76                  |                 | 2               |                          |       |
| 2596           | 120 | 81/04/30                  | 0302:00                  | 0305:25                 | 1559            | 123                 | 34244           | 4               | 91, 11                   |       |
| 2597           | 120 | 81/04/30                  | 1109:00                  | 1109:30                 | 50              | 82                  |                 | 2               |                          |       |
| 6367           | 120 | 81/04/30                  | 1219:08                  | 1220:47                 | 164             | 56                  |                 | 2               |                          | I     |
| 2598           | 121 | 81/05/01                  | 0110:25                  | 0110:45                 | 46              | 164                 | 1086            | 2               | 92, 1                    |       |
| 2599           | 121 | 81/05/01                  | 2136:50                  | 2137:35                 | 153             | 325                 | 14219           | 4               | 92, 2                    |       |
| 2600           | 122 | 81/05/02                  | 0350:15                  | 0350:30                 | 20              | 75                  |                 | 2               |                          |       |
| 2601           | 123 | 81/05/03                  | 0030:00                  | 0030:20                 | 178             | 64                  | 1131            | 2               | 92, 3                    |       |
| 2602           | 123 | 81/05/03                  | 1941:10                  | 1941:40                 | 272             | 188                 | 6021            | 4               | 92, 4                    | EW    |
| 2603           | 123 | 81/05/03                  | 2124:45                  | 2127:15                 | 256             | 125                 | 4028            | 2               | 92, 5                    | EW    |
| 2604           | 124 | 81/05/04                  | 0836:40                  | 0838:45                 | 711             | 19517               | 1.17E+06        | 14              | 92, 6                    | M     |
| 2605           | 124 | 81/05/04                  | 1935:15                  | 1935:35                 | 90              | 70                  |                 | 2               |                          |       |
| 2606           | 125 | 81/05/05                  | 0200:25                  | 0200:45                 | 105             | 61                  |                 | 2               |                          |       |
| 2607           | 125 | 81/05/05                  | 1050:25                  | 1050:35                 | 30              | 58                  |                 | 2               |                          |       |
| 2608           | 125 | 81/05/05                  | 2255:00                  | 2258:00                 | 1231            | 852                 | 1.77E+05        | 4               | 92, 8                    | M     |
| 2609           | 126 | 81/05/06                  | 0818:40                  | 0819:00                 | 50              | 69                  |                 | 2               |                          |       |
| 2610           | 127 | 81/05/07                  | 0201:35                  | 0202:25                 | 90              | 76                  |                 | 2               |                          |       |
| 2611           | 127 | 81/05/07                  | 0540:40                  | 0540:55                 | 40              | 58                  |                 | 2               |                          |       |
| 2612           | 127 | 81/05/07                  | 0625:05                  | 0625:40                 | 85              | 53                  |                 | 2               |                          |       |
| 2613           | 127 | 81/05/07                  | 0711:15                  | 0712:30                 | 90              | 66                  |                 | 2               |                          |       |
| 2614           | 127 | 81/05/07                  | 0826:00                  | 0826:25                 | 50              | 77                  |                 | 2               |                          |       |
| 2615           | 127 | 81/05/07                  | 0835:05                  | 0835:25                 | 40              | 76                  |                 | 2               |                          |       |
| 2616           | 127 | 81/05/07                  | 1427:40                  | 1428:10                 | 130             | 70                  |                 | 2               |                          |       |
| 2617           | 127 | 81/05/07                  | 1742:40                  | 1743:20                 | 95              | 89                  |                 | 2               |                          |       |
| 2618           | 127 | 81/05/07                  | 1746:45                  | 1747:20                 | 85              | 76                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 6379           | 127 | 81/05/07                  | 2100:38                  | 2101:14                 | 64              | 93                  |                 | 2               |                          |           |
| 2619           | 128 | 81/05/08                  | 0007:35                  | 0007:45                 | 50              | 65                  |                 | 2               |                          | I         |
| 2620           | 128 | 81/05/08                  | 0217:55                  | 0218:20                 | 125             | 81                  |                 | 3               |                          |           |
| 2621           | 128 | 81/05/08                  | 0335:00                  | 0335:15                 | 55              | 64                  |                 | 2               |                          |           |
| 2622           | 128 | 81/05/08                  | 0542:15                  | 0542:45                 | 49              | 517                 | 6193            | 7               | 92, 9                    |           |
| 2623           | 128 | 81/05/08                  | 1027:05                  | 1027:30                 | 50              | 68                  |                 | 2               |                          |           |
| 2624           | 128 | 81/05/08                  | 1333:10                  | 1334:10                 | 135             | 91                  |                 | 2               |                          |           |
| 2625           | 128 | 81/05/08                  | 1738:30                  | 1739:05                 | 56              | 220                 | 2312            | 2               | 92, 10                   |           |
| 2626           | 128 | 81/05/08                  | 1928:35                  | 1928:35                 | 160             | 94                  |                 | 2               |                          |           |
| 2627           | 128 | 81/05/08                  | 2057:20                  | 2058:25                 | 140             | 71                  |                 | 2               |                          |           |
| 2628           | 128 | 81/05/08                  | 2208:55                  | 2233:25                 | 5700            | 3271                | 1.65E+06        | 10              | 92, 11                   | M, IN     |
| 2629           | 129 | 81/05/09                  | 0157:45                  | 0158:30                 | 119             | 441                 | 12527           | 5               | 92, 12                   |           |
| 2730           | 129 | 81/05/09                  | 1155:35                  | 1156:15                 | 60              | 82                  |                 | 5               |                          |           |
| 2630           | 129 | 81/05/09                  | 1234:25                  | 1235:40                 | 200             | 82                  |                 | 2               |                          |           |
| 2631           | 129 | 81/05/09                  | 1325:25                  | 1325:35                 | 20              | 95                  |                 | 2               |                          |           |
| 2733           | 129 | 81/05/09                  | 1555:40                  | 1557:15                 | 299             | 169                 | 18160           | 10              | , 0                      |           |
| 2632           | 129 | 81/05/09                  | 1637:05                  | 1638:55                 | 265             | 221                 | 14871           | 2               | 92, 13                   |           |
| 2633           | 129 | 81/05/09                  | 1718:05                  | 1719:25                 | 155             | 83                  |                 | 2               |                          |           |
| 2634           | 129 | 81/05/09                  | 2204:35                  | 2205:05                 | 127             | 469                 | 13465           | 5               | 92, 14                   |           |
| 2635           | 129 | 81/05/09                  | 2207:40                  | 2208:50                 | 325             | 367                 | 21455           | 2               | 92, 14                   |           |
| 2636           | 129 | 81/05/09                  | 2227:05                  | 2227:35                 | 70              | 100                 | 1924            | 2               |                          |           |
| 2637           | 129 | 81/05/09                  | 2253:20                  | 2305:30                 | 995             | 243                 | 18612           | 2               | 92, 15                   |           |
| 2638           | 130 | 81/05/10                  | 0129:15                  | 0131:30                 | 237             | 138                 | 7252            | 2               | 92, 16                   |           |
| 2639           | 130 | 81/05/10                  | 0150:50                  | 0151:20                 | 145             | 81                  |                 | 2               |                          |           |
| 2640           | 130 | 81/05/10                  | 0501:50                  | 0504:30                 | 989             | 392                 | 50972           | 5               | 93, 1                    |           |
| 2641           | 130 | 81/05/10                  | 0610:05                  | 0610:20                 | 30              | 59                  |                 | 2               |                          |           |
| 2642           | 130 | 81/05/10                  | 1224:40                  | 1228:45                 | 3940            | 445                 | 1.61E+05        | 15              | 93, 2                    | M, SN, IS |
| 2643           | 130 | 81/05/10                  | 1950:50                  | 1951:05                 | 50              | 80                  |                 | 2               |                          |           |
| 2644           | 130 | 81/05/10                  | 2050:45                  | 2051:10                 | 35              | 74                  |                 | 2               |                          |           |
| 2645           | 130 | 81/05/10                  | 2124:10                  | 2124:30                 | 50              | 85                  |                 | 2               |                          |           |
| 2646           | 131 | 81/05/11                  | 0013:40                  | 0014:10                 | 103             | 244                 | 2967            | 5               | 93, 3                    |           |
| 2647           | 131 | 81/05/11                  | 0136:15                  | 0136:35                 | 60              | 169                 | 1397            | 2               | 93, 4                    |           |
| 2648           | 131 | 81/05/11                  | 0317:15                  | 0317:45                 | 45              | 75                  |                 | 2               |                          |           |
| 2649           | 131 | 81/05/11                  | 0330:55                  | 0332:05                 | 160             | 158                 | 4294            | 2               | 93, 5                    |           |
| 2650           | 131 | 81/05/11                  | 0447:45                  | 0448:20                 | 50              | 71                  |                 | 2               |                          |           |
| 2651           | 131 | 81/05/11                  | 0521:00                  | 0521:40                 | 65              | 91                  |                 | 2               |                          |           |
| 2652           | 131 | 81/05/11                  | 0603:55                  | 0613:30                 | 1227            | 608                 | 1.99E+05        | 10              | 93, 6                    | M         |
| 2653           | 131 | 81/05/11                  | 1403:30                  | 1403:55                 | 145             | 84                  | 1786            | 2               |                          |           |
| 2654           | 131 | 81/05/11                  | 1449:35                  | 1449:55                 | 105             | 93                  |                 | 2               |                          |           |
| 2655           | 131 | 81/05/11                  | 1532:25                  | 1533:15                 | 88              | 132                 | 1463            | 2               | 93, 7                    |           |
| 2656           | 131 | 81/05/11                  | 1534:55                  | 1535:05                 | 40              | 80                  |                 | 2               | 93, 7                    |           |
| 2657           | 131 | 81/05/11                  | 2039:15                  | 2039:25                 | 50              | 61                  |                 | 2               |                          |           |
| 2658           | 131 | 81/05/11                  | 2252:55                  | 2253:30                 | 85              | 56                  |                 | 2               |                          |           |
| 2659           | 131 | 81/05/11                  | 2339:15                  | 2339:35                 | 113             | 200                 | 3169            | 5               | 93, 8                    |           |
| 2660           | 132 | 81/05/12                  | 0504:15                  | 0505:15                 | 80              | 65                  |                 | 2               |                          |           |
| 2661           | 132 | 81/05/12                  | 1835:50                  | 1836:00                 | 20              | 49                  |                 | 2               |                          |           |
| 2662           | 133 | 81/05/13                  | 0406:45                  | 0415:30                 | 7205            | 5418                | 3.07E+06        | 15              | 198, 3                   | M, SN, IN |
| 2663           | 133 | 81/05/13                  | 1443:45                  | 1444:00                 | 35              | 212                 | 1948            | 3               | 93, 9                    | EN        |
| 2664           | 133 | 81/05/13                  | 1842:00                  | 1842:10                 | 29              | 114                 | 453             | 2               | 93, 10                   |           |
| 2665           | 133 | 81/05/13                  | 2324:15                  | 2325:00                 | 171             | 162                 | 59327           | 2               | 93, 11                   |           |
| 2666           | 134 | 81/05/14                  | 0314:15                  | 0315:25                 | 314             | 3432                | 1.20E+05        | 9               | 93, 12                   |           |
| 2667           | 134 | 81/05/14                  | 0631:00                  | 0631:25                 | 52              | 138                 | 1093            | 2               | 93, 13                   |           |
| 2668           | 134 | 81/05/14                  | 1421:35                  | 1422:15                 | 202             | 155                 | 2707            | 2               | 93, 14                   |           |
| 2669           | 135 | 81/05/15                  | 0414:15                  | 0416:00                 | 195             | 67                  |                 | 2               |                          |           |
| 2670           | 135 | 81/05/15                  | 0544:45                  | 0544:45                 | 303             | 215                 | 8691            | 9               | 93, 15                   | SN        |
| 2671           | 135 | 81/05/15                  | 0620:55                  | 0621:25                 | 61              | 112                 | 718             | 5               | 93, 16                   |           |
| 2672           | 135 | 81/05/15                  | 0735:40                  | 0739:00                 | 615             | 118                 | 4644            | 2               | 94, 1                    |           |
| 2673           | 135 | 81/05/15                  | 0757:45                  | 0758:40                 | 207             | 103                 | 3316            | 2               | 94, 2                    |           |
| 2674           | 135 | 81/05/15                  | 1815:30                  | 1815:35                 | 20              | 50                  |                 | 2               |                          |           |
| 2675           | 135 | 81/05/15                  | 1829:30                  | 1830:55                 | 170             | 100                 | 2984            | 2               |                          |           |
| 2676           | 135 | 81/05/15                  | 1853:20                  | 1854:40                 | 142             | 187                 | 5481            | 2               | 94, 3                    |           |
| 2677           | 135 | 81/05/15                  | 2135:15                  | 2136:15                 | 195             | 95                  |                 | 7               |                          | AX        |
| 2678           | 135 | 81/05/15                  | 2220:00                  | 2220:45                 | 120             | 67                  |                 | 2               |                          |           |
| 2679           | 136 | 81/05/16                  | 0036:05                  | 0036:30                 | 90              | 64                  |                 | 2               |                          | SN        |
| 2680           | 136 | 81/05/16                  | 0211:30                  | 0212:05                 | 65              | 61                  |                 | 2               |                          |           |
| 2681           | 136 | 81/05/16                  | 0240:50                  | 0241:20                 | 45              | 79                  |                 | 2               |                          |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 2682           | 136 | 81/05/16                  | 0442:20                  | 0442:45                 | 45              | 69                  |                 | 2               |                          |          |
| 2683           | 136 | 81/05/16                  | 0551:40                  | 0552:10                 | 75              | 160                 | 1314            | 3               | 94, 4                    |          |
| 6384           | 136 | 81/05/16                  | 0858:24                  | 0900:02                 | 2040            | 972                 | 3.77E+05        | 5               | 197, 5                   | M ,I ,SA |
| 2684           | 136 | 81/05/16                  | 2344:55                  | 2346:10                 | 145             | 86                  |                 | 5               |                          |          |
| 2685           | 137 | 81/05/17                  | 2027:35                  | 2032:30                 | 316             | 98                  | 2090            | 2               | 94, 5                    |          |
| 2686           | 137 | 81/05/17                  | 2126:15                  | 2133:10                 | 629             | 111                 | 8623            | 5               | 94, 6                    |          |
| 2687           | 137 | 81/05/17                  | 2335:30                  | 2337:45                 | 241             | 93                  | 4262            | 5               | 94, 7                    |          |
| 2688           | 138 | 81/05/18                  | 1449:55                  | 1451:30                 | 277             | 87                  | 5505            | 2               | 94, 8                    | M        |
| 2689           | 138 | 81/05/18                  | 1623:20                  | 1630:05                 | 747             | 62                  | 8790            | 2               | 94, 9                    | ES       |
| 2690           | 138 | 81/05/18                  | 1941:30                  | 1943:20                 | 230             | 442                 | 18232           | 4               | 94, 10                   |          |
| 2691           | 138 | 81/05/18                  | 2243:20                  | 2245:35                 | 712             | 116                 | 18723           | 4               | 94, 11                   | AX       |
| 2692           | 140 | 81/05/20                  | 0102:55                  | 0103:50                 | 145             | 73                  |                 | 4               |                          |          |
| 2693           | 140 | 81/05/20                  | 0145:15                  | 0145:45                 | 180             | 65                  |                 | 2               |                          |          |
| 2694           | 140 | 81/05/20                  | 1429:55                  | 1437:20                 | 490             | 136                 | 14460           | 3               | 94, 12                   | AX       |
| 2695           | 140 | 81/05/20                  | 2131:15                  | 2132:45                 | 200             | 96                  |                 | 6               |                          |          |
| 2696           | 140 | 81/05/20                  | 2233:25                  | 2234:10                 | 40              | 76                  |                 | 2               |                          |          |
| 2697           | 140 | 81/05/20                  | 2308:40                  | 2311:05                 | 425             | 125                 | 8217            | 4               | 94, 13                   |          |
| 2698           | 141 | 81/05/21                  | 0142:50                  | 0143:45                 | 165             | 86                  |                 | 2               |                          |          |
| 6390           | 141 | 81/05/21                  | 0629:10                  | 0631:17                 | 334             | 736                 | 32144           | 5               | 197, 7                   | M ,I     |
| 6389           | 141 | 81/05/21                  | 2123:36                  | 2124:41                 | 152             | 67                  |                 | 3               |                          | I        |
| 2699           | 141 | 81/05/21                  | 2220:25                  | 2226:15                 | 457             | 288                 | 31022           | 10              | 94, 14                   |          |
| 2700           | 141 | 81/05/21                  | 2300:30                  | 2301:35                 | 235             | 131                 | 9122            | 5               | 94, 15                   |          |
| 6391           | 143 | 81/05/23                  | 0321:19                  | 0324:14                 | 432             | 113                 | 6606            | 2               | 197, 9                   | I        |
| 2702           | 143 | 81/05/23                  | 2105:25                  | 2106:10                 | 190             | 92                  |                 | 5               |                          |          |
| 2701           | 143 | 81/05/23                  | 2112:35                  | 2113:30                 | 260             | 98                  | 5331            | 5               | 94, 16                   |          |
| 2703           | 144 | 81/05/24                  | 0023:50                  | 0025:55                 | 538             | 94                  | 9087            | 5               | 95, 1                    |          |
| 2704           | 144 | 81/05/24                  | 0432:25                  | 0437:05                 | 587             | 106                 | 9504            | 2               | 95, 2                    |          |
| 2705           | 144 | 81/05/24                  | 0504:40                  | 0506:20                 | 160             | 95                  |                 | 2               |                          |          |
| 2706           | 144 | 81/05/24                  | 1120:30                  | 1120:50                 | 60              | 147                 | 1045            | 5               | 95, 3                    |          |
| 2707           | 144 | 81/05/24                  | 2056:30                  | 2058:35                 | 292             | 72                  | 2945            | 2               | 95, 4                    |          |
| 2708           | 144 | 81/05/24                  | 2215:04                  | 2215:50                 | 100             | 71                  |                 | 2               |                          |          |
| 2709           | 145 | 81/05/25                  | 0427:15                  | 0429:05                 | 161             | 128                 | 2764            | 2               | 95, 5                    |          |
| 2710           | 145 | 81/05/25                  | 1704:55                  | 1705:05                 | 30              | 85                  |                 | 2               |                          |          |
| 2711           | 145 | 81/05/25                  | 1906:25                  | 1907:15                 | 170             | 77                  |                 | 6               |                          |          |
| 2712           | 145 | 81/05/25                  | 2044:05                  | 2044:40                 | 120             | 74                  |                 | 5               |                          |          |
| 2713           | 145 | 81/05/25                  | 2049:10                  | 2049:50                 | 190             | 69                  |                 | 2               |                          |          |
| 2714           | 145 | 81/05/25                  | 2151:35                  | 2152:15                 | 85              | 95                  |                 | 5               |                          | ND       |
| 2715           | 145 | 81/05/25                  | 2222:10                  | 2232:35                 | 770             | 108                 | 12196           | 6               | 95, 6                    |          |
| 2716           | 146 | 81/05/26                  | 0151:30                  | 0152:45                 | 135             | 71                  |                 | 2               |                          |          |
| 2717           | 147 | 81/05/27                  | 0751:20                  | 0752:00                 | 55              | 92                  |                 | 2               |                          |          |
| 2718           | 147 | 81/05/27                  | 1337:00                  | 1339:00                 | 216             | 116                 | 2950            | 2               | 95, 7                    |          |
| 2719           | 147 | 81/05/27                  | 1730:25                  | 1730:45                 | 140             | 61                  |                 | 2               |                          |          |
| 2720           | 147 | 81/05/27                  | 2209:30                  | 2212:00                 | 501             | 120                 | 17592           | 5               | 95, 8                    | AX       |
| 2721           | 148 | 81/05/28                  | 0605:35                  | 0606:05                 | 85              | 212                 | 2259            | 4               | 95, 9                    |          |
| 2722           | 151 | 81/06/04                  | 1928:20                  | 1928:30                 | 17              | 55                  |                 | 2               |                          |          |
| 2723           | 155 | 81/06/04                  | 1600:40                  | 1602:20                 | 195             | 81                  |                 | 3               |                          |          |
| 2724           | 156 | 81/06/05                  | 0201:10                  | 0201:20                 | 30              | 99                  |                 | 15              |                          | AX       |
| 6399           | 157 | 81/06/06                  | 1404:53                  | 1405:03                 | 152             | 78                  |                 | 2               |                          | I        |
| 2725           | 158 | 81/06/07                  | 0258:00                  | 0258:45                 | 117             | 129                 | 2644            | 2               | 95, 10                   |          |
| 2726           | 158 | 81/06/07                  | 1358:15                  | 1359:15                 | 195             | 90                  |                 | 10              |                          |          |
| 2727           | 159 | 81/06/08                  | 0305:25                  | 0306:25                 | 165             | 91                  |                 | 2               |                          |          |
| 2728           | 159 | 81/06/08                  | 0750:50                  | 0752:05                 | 303             | 390                 | 18597           | 5               | 95, 11                   |          |
| 2729           | 159 | 81/06/08                  | 0810:30                  | 0810:55                 | 56              | 99                  |                 | 2               |                          |          |
| 2731           | 160 | 81/06/09                  | 1336:00                  | 1336:45                 | 474             | 85                  | 5320            | 5               | 95, 12                   |          |
| 2732           | 160 | 81/06/09                  | 1516:15                  | 1517:15                 | 180             | 91                  |                 | 2               |                          |          |
| 2734           | 160 | 81/06/09                  | 1949:05                  | 1950:50                 | 172             | 240                 | 7260            | 5               | 95, 14                   |          |
| 2735           | 161 | 81/06/10                  | 0908:30                  | 0909:30                 | 168             | 116                 | 3138            | 2               | 95, 15                   |          |
| 2736           | 161 | 81/06/10                  | 1154:25                  | 1155:10                 | 75              | 81                  |                 | 2               |                          |          |
| 2737           | 161 | 81/06/10                  | 1326:05                  | 1328:35                 | 200             | 94                  |                 | 5               |                          |          |
| 2738           | 161 | 81/06/10                  | 1503:50                  | 1507:35                 | 502             | 93                  | 6131            | 5               | 95, 16                   |          |
| 2739           | 162 | 81/06/11                  | 1142:25                  | 1143:50                 | 185             | 99                  |                 | 6               |                          | AX       |
| 6405           | 164 | 81/06/13                  | 1259:57                  | 1302:00                 | 199             | 98                  |                 | 3               |                          | I        |
| 2740           | 164 | 81/06/13                  | 2241:55                  | 2242:05                 | 25              | 98                  |                 | 2               |                          |          |
| 6406           | 165 | 81/06/14                  | 1116:38                  | 1118:28                 | 152             | 78                  |                 | 2               |                          | I        |
| 6407           | 165 | 81/06/14                  | 1245:33                  | 1246:04                 | 55              | 61                  |                 | 2               |                          | I        |
| 2741           | 167 | 81/06/16                  | 0640:45                  | 0641:45                 | 85              | 65                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 2742           | 167 | 81/06/16                  | 0744:25                  | 0745:20                 | 200             | 111                 | 4512            | 2               | 96, 1                    |           |
| 2743           | 167 | 81/06/16                  | 1230:15                  | 1231:10                 | 125             | 100                 | 2229            | 2               |                          |           |
| 2744           | 167 | 81/06/16                  | 1232:50                  | 1234:35                 | 185             | 70                  |                 | 3               |                          |           |
| 2745           | 167 | 81/06/16                  | 2028:30                  | 2028:55                 | 75              | 93                  |                 | 2               |                          |           |
| 2746           | 168 | 81/06/17                  | 0002:15                  | 0003:55                 | 486             | 1236                | 52891           | 5               | 96, 2                    |           |
| 2747           | 168 | 81/06/17                  | 0132:30                  | 0133:05                 | 75              | 296                 | 4406            | 3               | 96, 3                    |           |
| 2748           | 168 | 81/06/17                  | 0250:35                  | 0251:50                 | 130             | 97                  |                 | 2               |                          |           |
| 2749           | 168 | 81/06/17                  | 0322:45                  | 0324:15                 | 149             | 112                 | 2035            | 4               | 96, 4                    |           |
| 2750           | 168 | 81/06/17                  | 0430:05                  | 0430:35                 | 40              | 71                  |                 | 2               |                          |           |
| 2751           | 168 | 81/06/17                  | 0506:20                  | 0506:30                 | 20              | 65                  |                 | 2               |                          |           |
| 2752           | 168 | 81/06/17                  | 0751:55                  | 0752:00                 | 25              | 89                  |                 | 2               |                          |           |
| 2753           | 168 | 81/06/17                  | 0910:55                  | 0912:35                 | 175             | 78                  |                 | 5               |                          |           |
| 2754           | 168 | 81/06/17                  | 0946:50                  | 0949:10                 | 334             | 571                 | 26782           | 7               | 96, 5                    |           |
| 2755           | 168 | 81/06/17                  | 1000:55                  | 1001:20                 | 65              | 92                  |                 | 2               |                          |           |
| 6413           | 169 | 81/06/18                  | 1313:03                  | 1313:37                 | 54              | 105                 | 854             | 2               | 203, 2                   | I         |
| 2756           | 173 | 81/06/22                  | 1450:30                  | 1454:20                 | 1386            | 329                 | 98304           | 10              | 96, 6                    | M, SN, ES |
| 2766           | 174 | 81/06/23                  | 0042:40                  | 0043:00                 | 180             | 83                  |                 | 2               |                          |           |
| 2757           | 174 | 81/06/23                  | 0658:55                  | 0659:05                 | 47              | 156                 | 2063            | 4               | 96, 7                    |           |
| 2758           | 174 | 81/06/23                  | 0903:15                  | 0904:20                 | 143             | 143                 | 3278            | 2               | 96, 8                    |           |
| 6419           | 174 | 81/06/23                  | 1052:38                  | 1053:49                 | 125             | 176                 | 6456            | 2               | 203, 5                   | I         |
| 6420           | 174 | 81/06/23                  | 1101:46                  | 1102:34                 | 118             | 59                  |                 | 2               |                          | I         |
| 2759           | 174 | 81/06/23                  | 1220:40                  | 1223:30                 | 375             | 133                 | 8547            | 2               | 96, 9                    |           |
| 2760           | 174 | 81/06/23                  | 1719:00                  | 1719:05                 | 360             | 127                 | 15492           | 3               | 96, 10                   | M, SA, AX |
| 2761           | 174 | 81/06/23                  | 1815:20                  | 1815:50                 | 55              | 76                  |                 | 2               |                          |           |
| 2762           | 174 | 81/06/23                  | 1823:50                  | 1824:30                 | 85              | 75                  |                 | 2               |                          |           |
| 2763           | 174 | 81/06/23                  | 1858:00                  | 1858:05                 | 68              | 212                 | 2797            | 3               | 96, 11                   | M, SA     |
| 2764           | 174 | 81/06/23                  | 2252:30                  | 2252:55                 | 60              | 74                  |                 | 2               |                          |           |
| 2765           | 174 | 81/06/23                  | 2336:15                  | 2337:15                 | 110             | 89                  |                 | 2               |                          |           |
| 2767           | 175 | 81/06/24                  | 0157:20                  | 0159:10                 | 216             | 123                 | 6418            | 2               | 96, 12                   |           |
| 2768           | 175 | 81/06/24                  | 0638:40                  | 0640:15                 | 195             | 87                  |                 | 2               |                          |           |
| 2769           | 175 | 81/06/24                  | 0853:35                  | 0853:40                 | 23              | 115                 | 418             | 3               | 96, 13                   |           |
| 2770           | 175 | 81/06/24                  | 1305:55                  | 1307:25                 | 95              | 76                  |                 | 2               |                          |           |
| 2771           | 175 | 81/06/24                  | 1624:20                  | 1624:45                 | 70              | 81                  |                 | 2               |                          |           |
| 2772           | 175 | 81/06/24                  | 1709:50                  | 1712:30                 | 225             | 198                 | 8900            | 3               | 96, 14                   | SN        |
| 2773           | 175 | 81/06/24                  | 2028:15                  | 2028:45                 | 65              | 130                 | 1340            | 2               | 96, 15                   |           |
| 2774           | 176 | 81/06/25                  | 0057:00                  | 0058:10                 | 1150            | 1480                | 99613           | 10              | 96, 16                   | ND        |
| 2775           | 176 | 81/06/25                  | 0157:45                  | 0159:10                 | 148             | 1018                | 14193           | 10              | 97, 1                    | M         |
| 2776           | 176 | 81/06/25                  | 0201:55                  | 0202:40                 | 75              | 76                  |                 | 2               |                          |           |
| 2777           | 176 | 81/06/25                  | 0219:35                  | 0219:50                 | 39              | 154                 | 4358            | 2               | 97, 1                    | ND        |
| 2778           | 176 | 81/06/25                  | 0334:05                  | 0336:50                 | 345             | 205                 | 6205            | 2               | 97, 2                    |           |
| 2779           | 176 | 81/06/25                  | 0345:20                  | 0345:40                 | 75              | 151                 | 1380            | 4               | 97, 3                    |           |
| 2780           | 176 | 81/06/25                  | 0406:40                  | 0407:15                 | 65              | 72                  |                 | 2               |                          |           |
| 2781           | 176 | 81/06/25                  | 0508:45                  | 0509:00                 | 40              | 88                  |                 | 2               |                          |           |
| 2782           | 176 | 81/06/25                  | 1741:45                  | 1745:00                 | 415             | 262                 | 22539           | 2               | 97, 4                    |           |
| 2783           | 176 | 81/06/25                  | 2021:30                  | 2022:00                 | 69              | 360                 | 4749            | 5               | 97, 5                    |           |
| 2784           | 176 | 81/06/25                  | 2051:20                  | 2051:50                 | 213             | 75                  | 1676            | 2               | 97, 6                    |           |
| 2785           | 176 | 81/06/25                  | 2157:25                  | 2158:00                 | 105             | 77                  |                 | 2               |                          |           |
| 2786           | 176 | 81/06/25                  | 2309:45                  | 2309:50                 | 20              | 69                  |                 | 2               |                          |           |
| 2787           | 176 | 81/06/25                  | 2311:15                  | 2311:35                 | 60              | 82                  |                 | 2               |                          |           |
| 2788           | 177 | 81/06/26                  | 0034:15                  | 0035:10                 | 200             | 106                 | 2807            | 2               | 97, 7                    |           |
| 2789           | 177 | 81/06/26                  | 0320:15                  | 0325:15                 | 1317            | 119                 | 21576           | 2               | 97, 8                    |           |
| 2790           | 177 | 81/06/26                  | 0640:35                  | 0644:35                 | 672             | 552                 | 52722           | 2               | 97, 9                    |           |
| 2791           | 177 | 81/06/26                  | 1340:55                  | 1341:30                 | 80              | 430                 | 4448            | 3               | 97, 10                   |           |
| 2792           | 177 | 81/06/26                  | 1909:05                  | 1909:45                 | 200             | 64                  |                 | 2               |                          |           |
| 2793           | 178 | 81/06/27                  | 0753:55                  | 0754:50                 | 85              | 95                  |                 | 2               |                          |           |
| 2794           | 178 | 81/06/27                  | 0847:20                  | 0857:10                 | 772             | 391                 | 6391            | 5               | 97, 11                   | M, EN     |
| 2795           | 179 | 81/06/28                  | 0023:05                  | 0023:40                 | 285             | 419                 | 10446           | 5               | 97, 12                   |           |
| 2796           | 179 | 81/06/28                  | 0358:15                  | 0359:10                 | 240             | 674                 | 22394           | 10              | 97, 13                   | FS        |
| 2797           | 179 | 81/06/28                  | 0437:45                  | 0438:35                 | 115             | 83                  |                 | 2               |                          |           |
| 2798           | 179 | 81/06/28                  | 0508:25                  | 0508:55                 | 50              | 95                  |                 | 2               |                          |           |
| 2799           | 179 | 81/06/28                  | 0654:00                  | 0654:35                 | 120             | 85                  |                 | 2               |                          |           |
| 2800           | 179 | 81/06/28                  | 0714:50                  | 0715:20                 | 65              | 63                  |                 | 2               |                          |           |
| 2801           | 180 | 81/06/29                  | 0035:20                  | 0040:40                 | 765             | 1798                | 4.37E+05        | 5               | 97, 14                   |           |
| 2802           | 180 | 81/06/29                  | 0357:25                  | 0357:45                 | 40              | 76                  |                 | 2               |                          |           |
| 2803           | 181 | 81/06/30                  | 0213:55                  | 0215:25                 | 140             | 96                  |                 | 6               |                          | AX        |
| 2804           | 181 | 81/06/30                  | 0620:30                  | 0621:40                 | 200             | 122                 | 6022            | 2               | 97, 15                   |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2805           | 181 | 81/06/30                  | 2037:35                  | 2037:55                 | 60              | 83                  |                 | 2               |                          |       |
| 2806           | 181 | 81/06/30                  | 2341:00                  | 2341:35                 | 115             | 83                  |                 | 2               |                          |       |
| 2807           | 182 | 81/07/01                  | 2028:25                  | 2028:50                 | 35              | 72                  |                 | 2               |                          |       |
| 2808           | 183 | 81/07/02                  | 0015:45                  | 0016:45                 | 90              | 77                  |                 | 4               |                          |       |
| 2809           | 183 | 81/07/02                  | 0156:35                  | 0156:45                 | 210             | 137                 | 5586            | 13              | 97, 16                   |       |
| 2810           | 183 | 81/07/02                  | 0235:00                  | 0236:10                 | 90              | 136                 | 1833            | 2               | 97, 17                   |       |
| 6425           | 183 | 81/07/02                  | 1244:30                  | 1244:57                 | 170             | 1513                | 27400           | 4               | 203, 9                   | M, I  |
| 6426           | 183 | 81/07/02                  | 1255:53                  | 1301:25                 | 717             | 614                 | 87522           | 2               | 203, 9                   | I, EN |
| 2811           | 184 | 81/07/03                  | 0111:05                  | 0112:10                 | 136             | 203                 | 5826            | 2               | 98, 1                    |       |
| 2812           | 184 | 81/07/03                  | 0119:55                  | 0124:50                 | 602             | 1593                | 91923           | 5               | 98, 1                    | M     |
| 2816           | 184 | 81/07/03                  | 0139:45                  | 0140:40                 | 165             | 65                  |                 | 2               |                          |       |
| 2813           | 184 | 81/07/03                  | 0440:20                  | 0443:45                 | 438             | 149                 | 7370            | 2               | 98, 3                    |       |
| 6427           | 184 | 81/07/03                  | 0934:51                  | 0935:13                 | 30              | 95                  |                 | 2               |                          | I     |
| 2814           | 184 | 81/07/03                  | 1907:00                  | 1908:20                 | 611             | 412                 | 20798           | 5               | 98, 4                    | M     |
| 2815           | 184 | 81/07/03                  | 2357:05                  | 2358:35                 | 110             | 84                  |                 | 2               |                          |       |
| 2817           | 185 | 81/07/04                  | 0549:55                  | 0550:10                 | 40              | 67                  |                 | 2               |                          |       |
| 2818           | 185 | 81/07/04                  | 0554:10                  | 0554:35                 | 110             | 67                  |                 | 2               |                          |       |
| 2819           | 185 | 81/07/04                  | 2124:20                  | 2127:30                 | 733             | 319                 | 55334           | 10              | 98, 5                    |       |
| 2820           | 185 | 81/07/04                  | 2345:10                  | 2347:50                 | 473             | 154                 | 17640           | 10              | 98, 6                    |       |
| 2821           | 186 | 81/07/05                  | 1530:05                  | 1530:25                 | 194             | 116                 | 3179            | 2               | 98, 7                    |       |
| 2822           | 186 | 81/07/05                  | 1952:35                  | 1953:10                 | 125             | 67                  |                 | 2               |                          |       |
| 2823           | 187 | 81/07/06                  | 2245:15                  | 2251:35                 | 619             | 130                 | 13969           | 10              | 98, 8                    |       |
| 2824           | 187 | 81/07/06                  | 2328:05                  | 2330:10                 | 412             | 196                 | 18743           | 10              | 98, 9                    |       |
| 2825           | 188 | 81/07/07                  | 0217:20                  | 0220:45                 | 422             | 89                  | 7537            | 2               | 98, 10                   |       |
| 2826           | 188 | 81/07/07                  | 0243:57                  | 0244:55                 | 155             | 90                  |                 | 2               |                          |       |
| 2827           | 188 | 81/07/07                  | 2239:25                  | 2242:00                 | 195             | 84                  |                 | 5               |                          | AX    |
| 2828           | 189 | 81/07/08                  | 0034:50                  | 0035:10                 | 30              | 68                  |                 | 2               |                          |       |
| 2829           | 189 | 81/07/08                  | 1149:55                  | 1150:05                 | 21              | 117                 | 276             | 2               | 98, 11                   |       |
| 2830           | 189 | 81/07/08                  | 1215:35                  | 1217:30                 | 145             | 79                  |                 | 2               |                          |       |
| 2831           | 189 | 81/07/08                  | 2050:45                  | 2050:55                 | 130             | 85                  |                 | 2               |                          |       |
| 2832           | 189 | 81/07/08                  | 2228:45                  | 2233:05                 | 749             | 170                 | 25153           | 5               | 98, 12                   | AX    |
| 2833           | 189 | 81/07/08                  | 2307:45                  | 2308:45                 | 506             | 98                  |                 | 5               | 98, 13                   | AX    |
| 2834           | 190 | 81/07/09                  | 0028:00                  | 0029:30                 | 197             | 83                  |                 | 2               |                          | AX    |
| 2835           | 190 | 81/07/09                  | 0714:30                  | 0714:55                 | 195             | 75                  |                 | 2               |                          | AX    |
| 2836           | 190 | 81/07/09                  | 1315:30                  | 1316:45                 | 351             | 487                 | 32757           | 2               | 98, 14                   | M     |
| 2837           | 190 | 81/07/09                  | 1610:10                  | 1611:00                 | 85              | 100                 | 2349            | 2               |                          |       |
| 2838           | 190 | 81/07/09                  | 1740:30                  | 1741:20                 | 65              | 79                  |                 | 2               |                          |       |
| 2839           | 190 | 81/07/09                  | 2041:00                  | 2045:15                 | 521             | 214                 | 29289           | 10              | 98, 15                   | SN    |
| 2840           | 191 | 81/07/10                  | 0655:00                  | 0655:07                 | 13              | 504                 | 1348            | 5               | 98, 16                   |       |
| 2841           | 191 | 81/07/10                  | 1939:25                  | 1941:25                 | 135             | 70                  |                 | 2               |                          |       |
| 2842           | 191 | 81/07/10                  | 2211:45                  | 2213:45                 | 190             | 85                  |                 | 5               |                          |       |
| 2843           | 192 | 81/07/11                  | 1500:15                  | 1501:35                 | 175             | 66                  |                 | 2               |                          |       |
| 2844           | 192 | 81/07/11                  | 2342:25                  | 2342:50                 | 65              | 67                  |                 | 2               |                          | EW    |
| 2845           | 192 | 81/07/11                  | 2345:25                  | 2346:00                 | 70              | 90                  |                 | 2               |                          | EW    |
| 2846           | 193 | 81/07/12                  | 0211:10                  | 0215:10                 | 505             | 204                 | 9909            | 5               | 99, 1                    |       |
| 2847           | 193 | 81/07/12                  | 0444:05                  | 0444:10                 | 15              | 78                  |                 | 2               | 99, 2                    | EW    |
| 2848           | 193 | 81/07/12                  | 0446:30                  | 0446:50                 | 44              | 307                 | 1882            | 5               | 99, 2                    | EW    |
| 2849           | 193 | 81/07/12                  | 1104:30                  | 1104:55                 | 40              | 88                  |                 | 2               |                          |       |
| 6441           | 193 | 81/07/12                  | 2055:24                  | 2057:06                 | 210             | 66                  |                 | 3               |                          | I     |
| 2850           | 193 | 81/07/12                  | 2233:15                  | 2237:00                 | 488             | 106                 | 11982           | 5               | 99, 3                    |       |
| 2851           | 194 | 81/07/13                  | 1842:40                  | 1843:35                 | 80              | 79                  |                 | 2               |                          |       |
| 6442           | 194 | 81/07/13                  | 2045:43                  | 2047:28                 | 195             | 76                  |                 | 3               |                          | I, DG |
| 6443           | 194 | 81/07/13                  | 2055:39                  | 2056:20                 | 60              | 65                  |                 | 2               |                          | I     |
| 2852           | 194 | 81/07/13                  | 2224:00                  | 2228:10                 | 646             | 213                 | 2113            | 5               | 99, 4                    |       |
| 2853           | 195 | 81/07/14                  | 2215:25                  | 2219:30                 | 619             | 104                 | 15980           | 5               | 99, 5                    |       |
| 2854           | 196 | 81/07/15                  | 0247:50                  | 0248:25                 | 105             | 73                  |                 | 2               |                          |       |
| 2855           | 196 | 81/07/15                  | 0731:10                  | 0731:45                 | 138             | 118                 | 2677            | 2               | 99, 6                    |       |
| 2856           | 196 | 81/07/15                  | 1642:50                  | 1645:40                 | 565             | 502                 | 61942           | 4               | 99, 7                    | M     |
| 2857           | 196 | 81/07/15                  | 2005:05                  | 2006:00                 | 210             | 217                 | 4441            | 2               | 99, 9                    |       |
| 2858           | 196 | 81/07/15                  | 2134:20                  | 2135:20                 | 157             | 61                  |                 | 2               |                          |       |
| 2859           | 196 | 81/07/15                  | 2157:55                  | 2159:15                 | 289             | 194                 | 9838            | 2               | 99, 10                   |       |
| 2868           | 197 | 81/07/16                  | 0251:25                  | 0252:10                 | 135             | 96                  |                 | 2               |                          |       |
| 2860           | 197 | 81/07/16                  | 0418:25                  | 0419:15                 | 136             | 252                 | 5342            | 2               | 99, 11                   |       |
| 2861           | 197 | 81/07/16                  | 1217:00                  | 1217:10                 | 115             | 63                  |                 | 2               |                          |       |
| 2862           | 197 | 81/07/16                  | 1509:45                  | 1510:45                 | 150             | 67                  |                 | 2               |                          |       |
| 2863           | 197 | 81/07/16                  | 1636:10                  | 1641:10                 | 492             | 1689                | 60851           | 8               | 99, 12                   | M, FS |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------|
| 2864           | 197 | 81/07/16                  | 2023:40                  | 2025:15                 | 115             | 67                  |                 | 2               |                          |         |
| 2865           | 197 | 81/07/16                  | 2029:45                  | 2030:35                 | 90              | 68                  |                 | 2               |                          |         |
| 2866           | 197 | 81/07/16                  | 2038:55                  | 2039:25                 | 65              | 55                  |                 | 2               |                          |         |
| 2867           | 197 | 81/07/16                  | 2323:30                  | 2325:40                 | 288             | 106                 | 5043            | 2               | 99, 14                   |         |
| 2869           | 198 | 81/07/17                  | 0345:15                  | 0345:30                 | 29              | 288                 | 1976            | 5               | 99, 15                   | SA      |
| 2870           | 198 | 81/07/17                  | 0538:00                  | 0542:25                 | 348             | 71                  | 2784            | 2               | 99, 16                   |         |
| 2871           | 198 | 81/07/17                  | 0708:50                  | 0709:30                 | 65              | 92                  |                 | 2               |                          |         |
| 2872           | 198 | 81/07/17                  | 0842:22                  | 0842:35                 | 2556            | 1100                | 5.02E+05        | 10              | 100, 1                   | M,SA    |
| 2873           | 198 | 81/07/17                  | 1145:10                  | 1146:50                 | 219             | 134                 | 2994            | 2               | 100, 2                   |         |
| 2874           | 198 | 81/07/17                  | 1153:40                  | 1155:50                 | 174             | 173                 | 3443            | 2               | 100, 2                   | M       |
| 2875           | 198 | 81/07/17                  | 1223:15                  | 1225:20                 | 614             | 1137                | 1.23E+05        | 5               | 100, 3                   | FS      |
| 2876           | 198 | 81/07/17                  | 1347:25                  | 1347:45                 | 55              | 99                  |                 | 2               |                          |         |
| 2877           | 198 | 81/07/17                  | 1505:30                  | 1505:50                 | 34              | 300                 | 1502            | 5               | 100, 4                   |         |
| 2878           | 198 | 81/07/17                  | 1645:35                  | 1646:00                 | 40              | 65                  |                 | 2               |                          |         |
| 2879           | 198 | 81/07/17                  | 1648:45                  | 1649:15                 | 92              | 176                 | 2699            | 2               | 100, 5                   |         |
| 2880           | 198 | 81/07/17                  | 1700:05                  | 1703:10                 | 679             | 385                 | 47047           | 4               | 100, 6                   |         |
| 2881           | 198 | 81/07/17                  | 2010:40                  | 2010:50                 | 15              | 74                  |                 | 2               |                          |         |
| 2882           | 198 | 81/07/17                  | 2012:20                  | 2012:35                 | 30              | 85                  |                 | 3               |                          |         |
| 2883           | 198 | 81/07/17                  | 2303:35                  | 2304:00                 | 45              | 67                  |                 | 2               |                          |         |
| 2884           | 199 | 81/07/18                  | 0030:25                  | 0031:45                 | 260             | 160                 | 7579            | 2               | 100, 7                   |         |
| 2885           | 199 | 81/07/18                  | 0111:15                  | 0111:40                 | 55              | 76                  |                 | 2               |                          |         |
| 2886           | 199 | 81/07/18                  | 0215:10                  | 0215:20                 | 41              | 123                 | 817             | 2               | 100, 8                   |         |
| 2887           | 199 | 81/07/18                  | 0404:45                  | 0404:50                 | 10              | 78                  |                 | 2               |                          |         |
| 2888           | 199 | 81/07/18                  | 0705:45                  | 0709:40                 | 643             | 980                 | 1.43E+05        | 5               | 100, 9                   | M       |
| 2889           | 199 | 81/07/18                  | 0841:40                  | 0841:55                 | 35              | 98                  |                 | 2               |                          |         |
| 2890           | 199 | 81/07/18                  | 1140:10                  | 1148:40                 | 848             | 637                 | 68358           | 2               | 100, 11                  | M,ND    |
| 2891           | 199 | 81/07/18                  | 1213:50                  | 1214:20                 | 184             | 158                 | 4648            | 2               | 100, 11                  | DG      |
| 2892           | 199 | 81/07/18                  | 1222:30                  | 1222:40                 | 216             | 4982                | 51190           | 10              | 100, 11                  |         |
| 2893           | 199 | 81/07/18                  | 1307:05                  | 1312:30                 | 630             | 209                 | 13908           | 2               | 100, 12                  |         |
| 2894           | 199 | 81/07/18                  | 1332:20                  | 1332:35                 | 30              | 78                  |                 | 2               |                          |         |
| 2895           | 199 | 81/07/18                  | 1403:40                  | 1404:00                 | 85              | 66                  |                 | 2               |                          |         |
| 2896           | 199 | 81/07/18                  | 1640:35                  | 1641:30                 | 106             | 124                 | 2852            | 5               | 100, 13                  |         |
| 2897           | 199 | 81/07/18                  | 1759:30                  | 1803:55                 | 601             | 73                  |                 | 2               | 100, 14                  | DG      |
| 2898           | 199 | 81/07/18                  | 1933:05                  | 1933:20                 | 25              | 71                  |                 | 2               |                          |         |
| 2899           | 199 | 81/07/18                  | 2015:25                  | 2015:50                 | 70              | 70                  |                 | 2               |                          |         |
| 2900           | 199 | 81/07/18                  | 2248:50                  | 2249:35                 | 174             | 123                 | 3424            | 2               | 100, 15                  |         |
| 2901           | 199 | 81/07/18                  | 2259:35                  | 2300:10                 | 120             | 67                  |                 | 2               |                          |         |
| 2902           | 200 | 81/07/19                  | 0015:05                  | 0015:20                 | 106             | 142                 | 1418            | 2               | 100, 16                  |         |
| 2903           | 200 | 81/07/19                  | 0021:45                  | 0022:20                 | 80              | 62                  |                 | 2               | 101, 1                   |         |
| 2904           | 200 | 81/07/19                  | 0024:15                  | 0024:30                 | 47              | 291                 | 1479            | 3               | 101, 1                   |         |
| 2905           | 200 | 81/07/19                  | 0150:45                  | 0200:05                 | 3258            | 5697                | 5.33E+05        | 5               | 101, 2                   | M       |
| 2906           | 200 | 81/07/19                  | 0417:30                  | 0425:10                 | 491             | 6358                | 1.68E+05        | 6               | 101, 3                   | EN,EW   |
| 2907           | 200 | 81/07/19                  | 0506:20                  | 0533:50                 | 3255            | 34086               | 1.23E+07        | 14              | 101, 4                   | M,EN,SA |
| 2908           | 200 | 81/07/19                  | 0735:10                  | 0735:50                 | 73              | 128                 | 612             | 2               | 101, 5                   |         |
| 2909           | 200 | 81/07/19                  | 0825:15                  | 0825:40                 | 45              | 68                  |                 | 2               |                          |         |
| 2910           | 200 | 81/07/19                  | 1005:50                  | 1006:15                 | 40              | 72                  |                 | 2               |                          |         |
| 2911           | 200 | 81/07/19                  | 1020:05                  | 1020:40                 | 85              | 75                  |                 | 2               |                          |         |
| 2912           | 200 | 81/07/19                  | 1300:40                  | 1301:45                 | 105             | 69                  |                 | 2               |                          |         |
| 2913           | 200 | 81/07/19                  | 1336:35                  | 1337:00                 | 72              | 544                 | 3280            | 4               | 101, 6                   | M       |
| 2914           | 200 | 81/07/19                  | 2239:45                  | 2240:10                 | 40              | 69                  |                 | 2               |                          |         |
| 2915           | 200 | 81/07/19                  | 2302:30                  | 2303:00                 | 60              | 71                  |                 | 2               |                          |         |
| 2916           | 201 | 81/07/20                  | 0217:25                  | 0217:27                 | 30              | 87                  |                 | 2               |                          |         |
| 2917           | 201 | 81/07/20                  | 0229:10                  | 0230:35                 | 227             | 227                 | 4248            | 2               | 101, 8                   |         |
| 2918           | 201 | 81/07/20                  | 0343:00                  | 0343:10                 | 60              | 118                 | 1706            | 2               | 101, 9                   |         |
| 2919           | 201 | 81/07/20                  | 0508:25                  | 0508:55                 | 60              | 66                  |                 | 2               |                          |         |
| 2920           | 201 | 81/07/20                  | 0719:35                  | 0719:55                 | 50              | 91                  |                 | 2               |                          |         |
| 2921           | 201 | 81/07/20                  | 0957:05                  | 0957:25                 | 81              | 132                 | 2084            | 2               | 101, 10                  |         |
| 2922           | 201 | 81/07/20                  | 1145:40                  | 1146:30                 | 115             | 100                 | 1669            | 2               |                          |         |
| 2923           | 201 | 81/07/20                  | 1200:50                  | 1201:25                 | 60              | 60                  |                 | 2               |                          |         |
| 2924           | 201 | 81/07/20                  | 1211:25                  | 1211:50                 | 50              | 56                  |                 | 2               |                          |         |
| 2925           | 201 | 81/07/20                  | 1307:15                  | 1318:30                 | 2560            | 1540                | 7.54E+05        | 9               | 101, 11                  | EN      |
| 2926           | 201 | 81/07/20                  | 1736:45                  | 1737:05                 | 442             | 145                 | 13865           | 2               | 101, 12                  | SN      |
| 2927           | 201 | 81/07/20                  | 2050:15                  | 2050:25                 | 40              | 60                  |                 | 2               |                          |         |
| 2928           | 201 | 81/07/20                  | 2110:35                  | 2110:55                 | 40              | 66                  |                 | 2               |                          |         |
| 2929           | 201 | 81/07/20                  | 2255:40                  | 2256:10                 | 45              | 62                  |                 | 2               |                          |         |
| 2930           | 201 | 81/07/20                  | 2309:00                  | 2309:05                 | 20              | 91                  |                 | 2               |                          |         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 2951           | 202 | 81/07/21                  | 0131:55                  | 0135:50                 | 447             | 171                 | 14541           | 2               | 102, 9                   |       |
| 2952           | 202 | 81/07/21                  | 0141:30                  | 0141:55                 | 157             | 824                 | 16166           | 4               | 102, 9                   | M     |
| 2953           | 202 | 81/07/21                  | 0151:10                  | 0151:45                 | 125             | 75                  |                 | 2               |                          |       |
| 2931           | 202 | 81/07/21                  | 0211:25                  | 0212:15                 | 75              | 64                  |                 | 2               |                          |       |
| 2932           | 202 | 81/07/21                  | 0230:05                  | 0230:50                 | 209             | 139                 | 3282            | 2               | 101, 13                  |       |
| 2933           | 202 | 81/07/21                  | 0359:00                  | 0404:10                 | 600             | 419                 | 35091           | 5               | 101, 14                  | M     |
| 2934           | 202 | 81/07/21                  | 0455:45                  | 0456:10                 | 94              | 260                 | 3994            | 2               | 101, 15                  |       |
| 2935           | 202 | 81/07/21                  | 0634:00                  | 0635:10                 | 180             | 79                  |                 | 2               |                          |       |
| 2936           | 202 | 81/07/21                  | 0715:05                  | 0715:35                 | 105             | 186                 | 7721            | 4               | 101, 16                  | M     |
| 2937           | 202 | 81/07/21                  | 0815:10                  | 0815:35                 | 73              | 149                 | 1532            | 2               | 102, 1                   |       |
| 2938           | 202 | 81/07/21                  | 0835:40                  | 0848:00                 | 1227            | 307                 | 44785           | 2               | 102, 2                   | EN    |
| 2939           | 202 | 81/07/21                  | 0945:15                  | 0945:45                 | 125             | 119                 | 2171            | 2               | 102, 3                   |       |
| 2940           | 202 | 81/07/21                  | 1110:35                  | 1111:35                 | 160             | 85                  |                 | 2               |                          |       |
| 2941           | 202 | 81/07/21                  | 1124:25                  | 1125:00                 | 135             | 69                  |                 | 2               |                          |       |
| 2942           | 202 | 81/07/21                  | 1314:05                  | 1315:15                 | 120             | 104                 | 2388            | 2               | 102, 4                   |       |
| 2943           | 202 | 81/07/21                  | 1609:35                  | 1609:50                 | 45              | 66                  |                 | 2               |                          |       |
| 2944           | 202 | 81/07/21                  | 1613:25                  | 1614:40                 | 195             | 72                  |                 | 3               |                          |       |
| 2945           | 202 | 81/07/21                  | 1621:10                  | 1622:05                 | 80              | 69                  |                 | 2               |                          |       |
| 2946           | 202 | 81/07/21                  | 1647:45                  | 1648:45                 | 282             | 240                 | 12524           | 2               | 102, 5                   | M     |
| 2947           | 202 | 81/07/21                  | 1812:10                  | 1812:30                 | 35              | 59                  |                 | 2               |                          |       |
| 2948           | 202 | 81/07/21                  | 1905:30                  | 1905:40                 | 25              | 62                  |                 | 2               |                          |       |
| 2949           | 202 | 81/07/21                  | 1908:20                  | 1910:00                 | 188             | 762                 | 28591           | 3               | 102, 6                   | M     |
| 2950           | 202 | 81/07/21                  | 2102:15                  | 2102:35                 | 65              | 119                 | 1052            | 2               | 102, 8                   |       |
| 2954           | 203 | 81/07/22                  | 0325:10                  | 0326:10                 | 115             | 70                  |                 | 2               |                          |       |
| 2955           | 203 | 81/07/22                  | 0354:45                  | 0355:15                 | 93              | 120                 | 1292            | 2               | 102, 11                  |       |
| 2956           | 203 | 81/07/22                  | 0800:35                  | 0801:10                 | 35              | 61                  |                 | 2               |                          |       |
| 2957           | 203 | 81/07/22                  | 0821:00                  | 0823:25                 | 321             | 142                 | 5288            | 2               | 102, 12                  |       |
| 2958           | 203 | 81/07/22                  | 0837:00                  | 0837:45                 | 623             | 1283                | 84894           | 4               | 102, 12                  | M     |
| 2959           | 203 | 81/07/22                  | 1014:40                  | 1015:10                 | 60              | 82                  |                 | 2               |                          |       |
| 2960           | 203 | 81/07/22                  | 1018:30                  | 1018:50                 | 70              | 236                 | 2979            | 3               | 102, 13                  |       |
| 2961           | 203 | 81/07/22                  | 1020:00                  | 1020:13                 | 30              | 79                  |                 | 2               |                          |       |
| 2962           | 203 | 81/07/22                  | 1604:15                  | 1605:30                 | 190             | 92                  |                 | 4               |                          |       |
| 2963           | 203 | 81/07/22                  | 1743:15                  | 1744:40                 | 135             | 79                  |                 | 2               |                          |       |
| 2964           | 203 | 81/07/22                  | 1905:25                  | 1905:40                 | 40              | 75                  |                 | 2               |                          |       |
| 2965           | 203 | 81/07/22                  | 2048:25                  | 2048:35                 | 63              | 125                 | 1021            | 2               | 102, 14                  |       |
| 2966           | 203 | 81/07/22                  | 2356:50                  | 2356:55                 | 41              | 203                 | 1496            | 3               | 102, 15                  |       |
| 2967           | 204 | 81/07/23                  | 0211:00                  | 0211:50                 | 184             | 687                 | 20181           | 4               | 102, 16                  |       |
| 2968           | 204 | 81/07/23                  | 0307:35                  | 0308:00                 | 83              | 406                 | 5446            | 5               | 103, 1                   | M     |
| 2969           | 204 | 81/07/23                  | 0438:05                  | 0446:40                 | 630             | 610                 | 19405           | 3               | 103, 3                   |       |
| 2970           | 204 | 81/07/23                  | 0820:00                  | 0821:00                 | 120             | 65                  |                 | 2               |                          |       |
| 2971           | 204 | 81/07/23                  | 0927:15                  | 0927:30                 | 45              | 70                  |                 | 2               |                          |       |
| 2972           | 204 | 81/07/23                  | 1000:50                  | 1000:55                 | 124             | 848                 | 8809            | 6               | 103, 4                   |       |
| 2973           | 204 | 81/07/23                  | 1102:15                  | 1103:15                 | 135             | 91                  |                 | 2               |                          |       |
| 2974           | 204 | 81/07/23                  | 1228:25                  | 1231:30                 | 530             | 79                  | 6337            | 3               | 103, 5                   |       |
| 2975           | 204 | 81/07/23                  | 1405:30                  | 1410:10                 | 1005            | 82                  | 77260           | 3               | 103, 6                   |       |
| 2976           | 204 | 81/07/23                  | 1452:35                  | 1453:00                 | 75              | 179                 | 12117           | 3               | 103, 7                   |       |
| 2977           | 204 | 81/07/23                  | 1457:30                  | 1457:40                 | 15              | 60                  |                 | 2               |                          |       |
| 2978           | 204 | 81/07/23                  | 1548:15                  | 1549:35                 | 160             | 83                  |                 | 2               |                          |       |
| 2979           | 204 | 81/07/23                  | 1630:10                  | 1634:50                 | 405             | 73                  | 5854            | 7               | 103, 8                   | EN    |
| 2980           | 204 | 81/07/23                  | 1920:45                  | 1922:00                 | 155             | 77                  |                 | 2               |                          |       |
| 2981           | 204 | 81/07/23                  | 2038:45                  | 2039:30                 | 175             | 81                  |                 | 2               |                          |       |
| 2982           | 204 | 81/07/23                  | 2045:50                  | 2048:10                 | 461             | 410                 | 38416           | 2               | 103, 9                   | M     |
| 2983           | 204 | 81/07/23                  | 2103:30                  | 2103:35                 | 60              | 55                  |                 | 2               |                          |       |
| 2984           | 205 | 81/07/24                  | 0304:50                  | 0305:55                 | 162             | 214                 | 5763            | 2               | 103, 10                  |       |
| 2985           | 205 | 81/07/24                  | 0506:35                  | 0509:20                 | 614             | 145                 | 4736            | 2               | 103, 11                  |       |
| 2986           | 205 | 81/07/24                  | 0603:10                  | 0603:25                 | 70              | 87                  |                 | 2               |                          |       |
| 2987           | 205 | 81/07/24                  | 0622:40                  | 0623:25                 | 79              | 101                 | 1150            | 2               | 103, 12                  |       |
| 2988           | 205 | 81/07/24                  | 0626:45                  | 0627:15                 | 88              | 114                 | 522             | 2               |                          |       |
| 2989           | 205 | 81/07/24                  | 0747:35                  | 0748:30                 | 404             | 806                 | 77860           | 5               | 103, 13                  | M     |
| 2990           | 205 | 81/07/24                  | 1112:50                  | 1114:25                 | 128             | 120                 | 1696            | 2               | 103, 15                  |       |
| 2991           | 205 | 81/07/24                  | 1229:45                  | 1230:55                 | 140             | 72                  |                 | 2               |                          |       |
| 2992           | 205 | 81/07/24                  | 1240:15                  | 1241:05                 | 116             | 142                 | 1793            | 2               | 103, 16                  |       |
| 6444           | 205 | 81/07/24                  | 1402:14                  | 1403:41                 | 126             | 71                  |                 | 2               |                          | I     |
| 2993           | 205 | 81/07/24                  | 1408:25                  | 1409:40                 | 105             | 93                  |                 | 2               |                          |       |
| 6445           | 205 | 81/07/24                  | 1428:54                  | 1429:24                 | 54              | 69                  |                 | 2               |                          | I     |
| 6446           | 205 | 81/07/24                  | 1448:08                  | 1448:27                 | 34              | 92                  |                 | 2               |                          | I     |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 2994           | 205 | 81/07/24                  | 2031:25                  | 2032:05                 | 94              | 261                 | 4768            | 4               | 104, 1                   |          |
| 2995           | 205 | 81/07/24                  | 2343:10                  | 2346:30                 | 316             | 117                 | 7884            | 2               | 104, 2                   |          |
| 2996           | 206 | 81/07/25                  | 0124:50                  | 0125:10                 | 60              | 69                  |                 | 2               |                          |          |
| 2997           | 206 | 81/07/25                  | 0158:05                  | 0158:35                 | 105             | 93                  |                 | 2               |                          |          |
| 2998           | 206 | 81/07/25                  | 0310:35                  | 0311:10                 | 83              | 121                 | 1947            | 2               | 104, 3                   |          |
| 2999           | 206 | 81/07/25                  | 0634:55                  | 0636:20                 | 199             | 87                  |                 | 2               |                          |          |
| 3000           | 206 | 81/07/25                  | 0919:20                  | 0921:20                 | 277             | 785                 | 28421           | 4               | 104, 4                   |          |
| 3001           | 206 | 81/07/25                  | 1059:40                  | 1100:05                 | 80              | 67                  |                 | 2               |                          | ND       |
| 3002           | 206 | 81/07/25                  | 1110:20                  | 1110:30                 | 135             | 192                 | 4355            | 2               | 104, 5                   | ND       |
| 6456           | 206 | 81/07/25                  | 1243:36                  | 1247:02                 | 1278            | 2178                | 5.98E+05        | 7               | 204, 5                   | I ,FS    |
| 3003           | 206 | 81/07/25                  | 1710:40                  | 1712:35                 | 520             | 1656                | 1.76E+05        | 10              | 104, 6                   | M ,AX    |
| 3004           | 206 | 81/07/25                  | 1726:10                  | 1727:40                 | 101             | 200                 | 2245            | 2               |                          | AX       |
| 3005           | 206 | 81/07/25                  | 1838:30                  | 1851:00                 | 2072            | 845                 | 5.96E+05        | 12              | 104, 7                   | AX       |
| 3006           | 206 | 81/07/25                  | 2013:00                  | 2014:25                 | 141             | 136                 | 3423            | 2               | 104, 8                   | AX       |
| 3007           | 206 | 81/07/25                  | 2025:00                  | 2029:00                 | 573             | 228                 | 25140           | 12              | 104, 8                   |          |
| 3008           | 206 | 81/07/25                  | 2156:00                  | 2156:05                 | 25              | 76                  |                 | 2               |                          |          |
| 3009           | 206 | 81/07/25                  | 2201:30                  | 2213:35                 | 1059            | 93                  | 18298           | 2               | 104, 9                   | AX       |
| 3010           | 206 | 81/07/25                  | 2336:50                  | 2337:35                 | 87              | 555                 | 7134            | 5               | 104, 10                  | M        |
| 3011           | 206 | 81/07/25                  | 2345:25                  | 2347:50                 | 183             | 139                 | 2419            | 2               | 104, 10                  |          |
| 3012           | 206 | 81/07/25                  | 2353:55                  | 2355:35                 | 125             | 63                  |                 | 2               |                          |          |
| 3013           | 206 | 81/07/25                  | 2358:05                  | 2358:15                 | 80              | 91                  |                 | 2               |                          |          |
| 3014           | 207 | 81/07/26                  | 0121:30                  | 0123:10                 | 230             | 466                 | 11855           | 3               | 104, 12                  | M        |
| 3015           | 207 | 81/07/26                  | 0313:05                  | 0313:15                 | 23              | 167                 | 543             | 4               | 104, 13                  |          |
| 3016           | 207 | 81/07/26                  | 0404:20                  | 0411:30                 | 712             | 3008                | 1.59E+05        | 8               | 104, 14                  | M ,SN,ND |
| 3017           | 207 | 81/07/26                  | 0547:55                  | 0548:30                 | 75              | 79                  |                 | 2               |                          |          |
| 3018           | 207 | 81/07/26                  | 0559:15                  | 0602:00                 | 559             | 901                 | 45051           | 5               | 104, 15                  | M        |
| 3019           | 207 | 81/07/26                  | 0619:10                  | 0619:40                 | 81              | 157                 | 1821            | 4               | 104, 15                  |          |
| 3020           | 207 | 81/07/26                  | 0724:05                  | 0725:25                 | 165             | 97                  |                 | 2               |                          |          |
| 3021           | 207 | 81/07/26                  | 0732:55                  | 0733:45                 | 312             | 65                  | 1974            | 2               | 104, 16                  |          |
| 3022           | 207 | 81/07/26                  | 0755:20                  | 0805:45                 | 1095            | 6974                | 8.24E+05        | 12              | 105, 1                   | M ,FS    |
| 3023           | 207 | 81/07/26                  | 0850:30                  | 0911:35                 | 1476            | 1476                | 49581           | 5               | 105, 2                   |          |
| 3024           | 207 | 81/07/26                  | 0941:45                  | 0943:00                 | 125             | 80                  |                 | 2               |                          |          |
| 3025           | 207 | 81/07/26                  | 0947:25                  | 0947:30                 | 35              | 65                  |                 | 2               |                          |          |
| 3026           | 207 | 81/07/26                  | 1107:40                  | 1108:10                 | 50              | 188                 | 1109            | 4               | 105, 3                   |          |
| 3027           | 207 | 81/07/26                  | 1111:05                  | 1113:00                 | 539             | 2614                | 2.54E+05        | 10              | 105, 3                   |          |
| 3028           | 207 | 81/07/26                  | 1215:45                  | 1216:10                 | 56              | 107                 | 829             | 2               | 105, 4                   |          |
| 3029           | 207 | 81/07/26                  | 1249:40                  | 1249:55                 | 33              | 311                 | 1746            | 3               | 105, 5                   | FS       |
| 3030           | 207 | 81/07/26                  | 1347:35                  | 1352:25                 | 668             | 56177               | 8.12E+06        | 15              | 105, 6                   | M        |
| 3031           | 207 | 81/07/26                  | 1528:10                  | 1533:30                 | 1079            | 217                 | 30400           | 2               | 105, 8                   | ND       |
| 3032           | 207 | 81/07/26                  | 1847:40                  | 1849:15                 | 198             | 93                  |                 | 2               |                          |          |
| 3033           | 207 | 81/07/26                  | 2134:00                  | 2134:10                 | 210             | 222                 | 9948            | 2               | 105, 9                   | SN       |
| 3034           | 207 | 81/07/26                  | 2203:00                  | 2203:35                 | 105             | 95                  |                 | 2               |                          |          |
| 3035           | 207 | 81/07/26                  | 2214:35                  | 2215:10                 | 110             | 71                  |                 | 2               |                          |          |
| 3036           | 207 | 81/07/26                  | 2218:15                  | 2219:25                 | 110             | 97                  |                 | 2               |                          |          |
| 3037           | 207 | 81/07/26                  | 2320:50                  | 2327:45                 | 683             | 345                 | 16537           | 5               | 105, 10                  |          |
| 3038           | 207 | 81/07/26                  | 2347:15                  | 2349:10                 | 217             | 292                 | 9316            | 5               | 105, 10                  |          |
| 3039           | 208 | 81/07/27                  | 0001:30                  | 0002:35                 | 105             | 75                  |                 | 2               |                          | ES       |
| 3040           | 208 | 81/07/27                  | 0102:55                  | 0107:55                 | 408             | 294                 | 9353            | 5               | 105, 11                  | FS       |
| 3041           | 208 | 81/07/27                  | 0113:20                  | 0114:30                 | 169             | 600                 | 27294           | 2               | 105, 11                  |          |
| 3042           | 208 | 81/07/27                  | 0312:50                  | 0313:40                 | 123             | 110                 | 1845            | 2               | 105, 12                  |          |
| 3043           | 208 | 81/07/27                  | 0404:20                  | 0407:15                 | 212             | 223                 | 3100            | 4               | 105, 13                  |          |
| 3044           | 208 | 81/07/27                  | 0412:30                  | 0414:15                 | 378             | 8554                | 1.74E+05        | 9               | 105, 13                  | M ,FS    |
| 3045           | 208 | 81/07/27                  | 0429:55                  | 0430:05                 | 25              | 62                  |                 | 2               |                          |          |
| 3046           | 208 | 81/07/27                  | 0433:55                  | 0434:10                 | 170             | 77                  |                 | 2               |                          |          |
| 3047           | 208 | 81/07/27                  | 0440:55                  | 0441:15                 | 195             | 77                  |                 | 2               |                          |          |
| 3048           | 208 | 81/07/27                  | 0600:45                  | 0601:15                 | 60              | 82                  |                 | 2               |                          |          |
| 3049           | 208 | 81/07/27                  | 0617:25                  | 0617:55                 | 69              | 451                 | 1968            | 5               | 105, 14                  | M        |
| 3050           | 208 | 81/07/27                  | 0627:35                  | 0630:05                 | 162             | 102                 | 2327            | 2               | 105, 14                  | EN       |
| 3051           | 208 | 81/07/27                  | 0721:50                  | 0722:25                 | 69              | 153                 | 994             | 2               | 105, 15                  |          |
| 3052           | 208 | 81/07/27                  | 0725:50                  | 0726:30                 | 119             | 125                 | 2247            | 2               | 105, 15                  |          |
| 3053           | 208 | 81/07/27                  | 0754:35                  | 0755:10                 | 65              | 62                  |                 | 2               |                          |          |
| 3054           | 208 | 81/07/27                  | 0927:50                  | 0928:10                 | 40              | 65                  |                 | 2               |                          |          |
| 3055           | 208 | 81/07/27                  | 0933:15                  | 0933:40                 | 60              | 72                  |                 | 2               |                          |          |
| 3056           | 208 | 81/07/27                  | 1156:40                  | 1157:35                 | 87              | 80                  |                 | 3               |                          |          |
| 3057           | 208 | 81/07/27                  | 1203:10                  | 1203:25                 | 35              | 80                  |                 | 3               |                          |          |
| 3058           | 208 | 81/07/27                  | 1223:50                  | 1225:10                 | 175             | 66                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3059           | 208 | 81/07/27                  | 1334:10                  | 1343:50                 | 1227            | 199                 | 8473            | 15              | 106, 1                   |       |
| 3060           | 208 | 81/07/27                  | 1411:50                  | 1416:35                 | 676             | 78                  | 10135           | 5               | 106, 1                   |       |
| 3061           | 208 | 81/07/27                  | 1515:56                  | 1523:55                 | 640             | 96                  | 6727            | 5               | 106, 2                   |       |
| 3062           | 208 | 81/07/27                  | 1647:00                  | 1647:55                 | 110             | 97                  |                 | 2               |                          |       |
| 3063           | 208 | 81/07/27                  | 2201:35                  | 2201:45                 | 20              | 78                  |                 | 2               |                          |       |
| 3064           | 209 | 81/07/28                  | 0125:45                  | 0126:45                 | 84              | 133                 | 1460            | 2               | 106, 3                   |       |
| 3065           | 209 | 81/07/28                  | 0216:25                  | 0217:25                 | 470             | 502                 | 17522           | 3               | 106, 4                   |       |
| 3066           | 209 | 81/07/28                  | 0257:50                  | 0300:20                 | 291             | 129                 | 4621            | 2               | 106, 5                   |       |
| 3067           | 209 | 81/07/28                  | 0712:50                  | 0714:10                 | 150             | 76                  |                 | 2               |                          |       |
| 3068           | 209 | 81/07/28                  | 0725:35                  | 0726:15                 | 427             | 256                 | 13752           | 3               | 106, 6                   |       |
| 3069           | 209 | 81/07/28                  | 1020:40                  | 1021:15                 | 110             | 66                  |                 | 2               |                          |       |
| 3070           | 209 | 81/07/28                  | 1232:10                  | 1232:20                 | 55              | 77                  |                 | 2               |                          |       |
| 3071           | 209 | 81/07/28                  | 1402:50                  | 1408:15                 | 628             | 96                  | 58758           | 6               | 106, 7                   |       |
| 3072           | 209 | 81/07/28                  | 1640:35                  | 1641:15                 | 110             | 90                  |                 | 2               |                          |       |
| 3073           | 209 | 81/07/28                  | 1950:00                  | 1950:25                 | 60              | 61                  |                 | 2               |                          |       |
| 3074           | 209 | 81/07/28                  | 2009:00                  | 2010:00                 | 598             | 11321               | 4.95E+05        | 9               | 106, 8                   | M     |
| 3075           | 210 | 81/07/29                  | 0240:30                  | 0240:50                 | 100             | 69                  |                 | 2               |                          |       |
| 3076           | 210 | 81/07/29                  | 0357:15                  | 0357:40                 | 55              | 65                  |                 | 2               |                          |       |
| 6471           | 210 | 81/07/29                  | 1028:46                  | 1029:08                 | 49              | 87                  |                 | 2               |                          | I     |
| 6472           | 210 | 81/07/29                  | 1045:02                  | 1045:12                 | 13              | 97                  |                 | 2               |                          | I     |
| 6473           | 210 | 81/07/29                  | 1052:50                  | 1053:03                 | 56              | 100                 | 1168            | 2               |                          | I     |
| 6474           | 210 | 81/07/29                  | 1224:34                  | 1226:45                 | 239             | 852                 | 16814           | 5               | 204, 12                  | I     |
| * 3077         | 210 | 81/07/29                  | 2258:00                  | 2258:05                 | 25              | 402                 | 2649            | 5               | 106, 9                   | M     |
| * 3078         | 210 | 81/07/29                  | 2305:15                  | 2306:45                 | 223             | 360                 | 7145            | 5               | 106, 9                   |       |
| * 3079         | 211 | 81/07/30                  | 0053:40                  | 0054:00                 | 45              | 80                  |                 | 2               |                          |       |
| * 3080         | 211 | 81/07/30                  | 0512:35                  | 0513:15                 | 60              | 97                  |                 | 2               |                          |       |
| * 3081         | 211 | 81/07/30                  | 0541:25                  | 0541:45                 | 75              | 65                  |                 | 2               |                          |       |
| * 3082         | 211 | 81/07/30                  | 0650:50                  | 0651:00                 | 50              | 66                  |                 | 2               |                          |       |
| * 3083         | 211 | 81/07/30                  | 0733:25                  | 0734:40                 | 112             | 195                 | 1545            | 2               | 106, 11                  |       |
| * 3084         | 211 | 81/07/30                  | 0901:15                  | 0901:40                 | 162             | 382                 | 2905            | 5               | 106, 12                  |       |
| * 3085         | 211 | 81/07/30                  | 1008:35                  | 1010:40                 | 166             | 644                 | 3031            | 5               | 106, 13                  | FS    |
| * 3086         | 211 | 81/07/30                  | 1046:00                  | 1046:40                 | 302             | 1530                | 33272           | 4               | 106, 14                  |       |
| 3087           | 211 | 81/07/30                  | 1135:50                  | 1136:30                 | 50              | 77                  |                 | 4               |                          |       |
| 3088           | 211 | 81/07/30                  | 1156:50                  | 1157:20                 | 60              | 57                  |                 | 2               |                          |       |
| 3089           | 211 | 81/07/30                  | 1307:40                  | 1309:40                 | 254             | 88                  | 3874            | 4               | 106, 15                  |       |
| 3090           | 211 | 81/07/30                  | 1345:05                  | 1351:10                 | 632             | 129                 | 16337           | 9               | 106, 16                  |       |
| 3091           | 211 | 81/07/30                  | 1449:20                  | 1451:15                 | 585             | 141                 | 18715           | 6               | 107, 1                   |       |
| 3092           | 211 | 81/07/30                  | 1614:10                  | 1617:00                 | 1359            | 388                 | 72359           | 6               | 107, 2                   | M, FS |
| 3093           | 211 | 81/07/30                  | 1947:00                  | 1947:40                 | 63              | 195                 | 1256            | 3               | 107, 4                   |       |
| 3094           | 211 | 81/07/30                  | 1950:00                  | 1951:15                 | 238             | 446                 | 9751            | 5               | 107, 4                   | M     |
| 3095           | 211 | 81/07/30                  | 2131:35                  | 2133:45                 | 290             | 928                 | 28283           | 5               | 107, 5                   | M     |
| 3096           | 211 | 81/07/30                  | 2326:08                  | 2327:45                 | 132             | 403                 | 18722           | 3               | 107, 6                   | M, ES |
| 3097           | 212 | 81/07/31                  | 0038:10                  | 0038:15                 | 20              | 358                 | 1361            | 5               | 107, 7                   | FS    |
| 3098           | 212 | 81/07/31                  | 0050:55                  | 0053:15                 | 337             | 1777                | 92528           | 7               | 107, 8                   | FS    |
| 3099           | 212 | 81/07/31                  | 0326:35                  | 0327:40                 | 230             | 388                 | 12866           | 4               | 107, 9                   | M     |
| 3100           | 212 | 81/07/31                  | 0344:10                  | 0345:15                 | 145             | 70                  |                 | 2               |                          |       |
| 3101           | 212 | 81/07/31                  | 0405:20                  | 0406:05                 | 234             | 139                 | 5144            | 2               | 107, 11                  |       |
| 3102           | 212 | 81/07/31                  | 0518:25                  | 0518:35                 | 80              | 111                 | 1341            | 2               | 107, 12                  |       |
| 3103           | 212 | 81/07/31                  | 0520:45                  | 0521:10                 | 55              | 92                  |                 | 2               | 107, 12                  |       |
| 3104           | 212 | 81/07/31                  | 0555:20                  | 0556:05                 | 88              | 729                 | 13768           | 8               | 107, 13                  |       |
| 3105           | 212 | 81/07/31                  | 0840:55                  | 0841:55                 | 140             | 65                  |                 | 2               |                          |       |
| 3106           | 212 | 81/07/31                  | 1120:45                  | 1121:30                 | 90              | 98                  |                 | 3               |                          |       |
| 3107           | 212 | 81/07/31                  | 1314:20                  | 1314:55                 | 60              | 67                  |                 | 2               |                          |       |
| 3108           | 212 | 81/07/31                  | 1940:20                  | 1940:55                 | 65              | 81                  |                 | 2               |                          |       |
| 3109           | 212 | 81/07/31                  | 2252:55                  | 2254:15                 | 110             | 98                  |                 | 2               |                          |       |
| 3110           | 213 | 81/08/01                  | 0050:55                  | 0051:30                 | 45              | 91                  |                 | 2               |                          |       |
| 3111           | 213 | 81/08/01                  | 0457:30                  | 0458:00                 | 50              | 78                  |                 | 2               |                          |       |
| 3112           | 213 | 81/08/01                  | 0807:25                  | 0808:35                 | 167             | 126                 | 4167            | 2               | 107, 14                  |       |
| 3113           | 213 | 81/08/01                  | 1116:25                  | 1118:30                 | 209             | 181                 | 11438           | 13              | 107, 15                  |       |
| 3114           | 213 | 81/08/01                  | 1249:35                  | 1251:50                 | 235             | 108                 | 4876            | 4               | 107, 16                  |       |
| 3115           | 213 | 81/08/01                  | 1438:10                  | 1438:55                 | 80              | 82                  |                 | 2               |                          |       |
| 3116           | 213 | 81/08/01                  | 2227:55                  | 2229:25                 | 169             | 112                 | 2798            | 2               | 108, 1                   |       |
| 3117           | 213 | 81/08/01                  | 2258:05                  | 2258:25                 | 80              | 82                  |                 | 2               |                          |       |
| 3118           | 214 | 81/08/02                  | 0039:35                  | 0040:00                 | 45              | 95                  |                 | 2               |                          |       |
| 3119           | 214 | 81/08/02                  | 0135:05                  | 0135:25                 | 38              | 142                 | 822             | 2               | 108, 2                   |       |
| 3120           | 214 | 81/08/02                  | 0339:25                  | 0339:45                 | 60              | 94                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3121           | 214 | 81/08/02                  | 0634:25                  | 0637:00                 | 290             | 150                 | 4879            | 2               | 108, 3                   |       |
| 3122           | 214 | 81/08/02                  | 1240:45                  | 1241:15                 | 198             | 85                  |                 | 3               |                          | AX    |
| 3123           | 214 | 81/08/02                  | 2110:40                  | 2111:20                 | 75              | 70                  |                 | 2               |                          |       |
| 3124           | 215 | 81/08/03                  | 0023:40                  | 0025:50                 | 135             | 65                  |                 | 2               |                          |       |
| 3125           | 215 | 81/08/03                  | 0137:00                  | 0137:25                 | 57              | 150                 | 1722            | 4               | 108, 4                   |       |
| 3126           | 215 | 81/08/03                  | 0140:05                  | 0140:55                 | 105             | 81                  |                 | 2               |                          |       |
| 3127           | 215 | 81/08/03                  | 0305:30                  | 0306:35                 | 195             | 74                  |                 | 2               |                          |       |
| 3128           | 215 | 81/08/03                  | 0917:40                  | 0918:40                 | 155             | 68                  |                 | 3               |                          |       |
| 3129           | 215 | 81/08/03                  | 0942:30                  | 0943:45                 | 120             | 79                  |                 | 3               |                          |       |
| 3130           | 215 | 81/08/03                  | 0957:35                  | 1001:10                 | 804             | 157                 | 16878           | 2               | 108, 5                   |       |
| 3131           | 215 | 81/08/03                  | 1056:05                  | 1059:10                 | 353             | 180                 | 16968           | 7               | 108, 6                   | M     |
| 3132           | 215 | 81/08/03                  | 1118:30                  | 1119:30                 | 752             | 279                 | 21614           | 5               | 108, 6                   |       |
| 3133           | 215 | 81/08/03                  | 1138:40                  | 1139:35                 | 60              | 61                  |                 | 2               |                          |       |
| 3134           | 215 | 81/08/03                  | 1244:25                  | 1248:50                 | 382             | 162                 | 9187            | 3               | 108, 7                   |       |
| 3135           | 215 | 81/08/03                  | 1601:15                  | 1604:45                 | 250             | 128                 | 4723            | 2               | 108, 8                   |       |
| 3136           | 215 | 81/08/03                  | 1857:30                  | 1858:05                 | 130             | 74                  |                 | 2               |                          |       |
| 3137           | 215 | 81/08/03                  | 1921:00                  | 1921:25                 | 45              | 70                  |                 | 2               |                          |       |
| 3138           | 215 | 81/08/03                  | 2026:20                  | 2026:20                 | 662             | 1270                | 1.90E+05        | 3               | 108, 9                   | M ,SN |
| 3139           | 215 | 81/08/03                  | 2221:55                  | 2224:25                 | 175             | 86                  |                 | 2               |                          |       |
| 3140           | 215 | 81/08/03                  | 2336:35                  | 2340:45                 | 1160            | 440                 | 1.13E+05        | 4               | 108, 11                  | M ,SN |
| 3141           | 216 | 81/08/04                  | 0132:10                  | 0133:40                 | 284             | 74                  | 3490            | 2               | 108, 13                  |       |
| 3142           | 216 | 81/08/04                  | 0206:55                  | 0207:35                 | 71              | 194                 | 1195            | 2               | 108, 14                  |       |
| 3143           | 216 | 81/08/04                  | 0210:30                  | 0212:20                 | 140             | 75                  |                 | 2               |                          |       |
| 3144           | 216 | 81/08/04                  | 0458:15                  | 0501:50                 | 422             | 75                  | 3436            | 2               | 108, 15                  |       |
| 3145           | 216 | 81/08/04                  | 0622:35                  | 0622:55                 | 25              | 65                  |                 | 2               |                          |       |
| 3146           | 216 | 81/08/04                  | 0628:15                  | 0628:25                 | 60              | 74                  |                 | 2               |                          |       |
| 3147           | 216 | 81/08/04                  | 0652:30                  | 0654:00                 | 129             | 388                 | 3419            | 3               | 108, 16                  | M     |
| 3148           | 216 | 81/08/04                  | 0656:10                  | 0657:15                 | 190             | 2469                | 21756           | 8               | 108, 16                  | M     |
| 3149           | 216 | 81/08/04                  | 0809:45                  | 0810:25                 | 195             | 340                 | 13111           | 4               | 109, 1                   |       |
| 3150           | 216 | 81/08/04                  | 0822:05                  | 0824:35                 | 180             | 92                  |                 | 2               |                          |       |
| 3151           | 216 | 81/08/04                  | 0949:05                  | 0951:45                 | 288             | 131                 | 3797            | 2               | 109, 2                   |       |
| 3152           | 216 | 81/08/04                  | 1004:00                  | 1006:05                 | 155             | 73                  |                 | 2               |                          |       |
| 3153           | 216 | 81/08/04                  | 1046:30                  | 1050:30                 | 421             | 118                 | 10168           | 5               | 109, 3                   |       |
| 3154           | 216 | 81/08/04                  | 1106:40                  | 1107:40                 | 195             | 91                  |                 | 2               |                          |       |
| 3155           | 216 | 81/08/04                  | 1115:50                  | 1117:20                 | 165             | 67                  |                 | 2               |                          |       |
| 3156           | 216 | 81/08/04                  | 1119:52                  | 1122:05                 | 170             | 127                 | 1033            | 2               | 109, 4                   |       |
| 3157           | 216 | 81/08/04                  | 1129:30                  | 1130:45                 | 182             | 434                 | 12360           | 3               | 109, 5                   |       |
| 3158           | 216 | 81/08/04                  | 1221:25                  | 1222:50                 | 552             | 87                  | 9559            | 5               | 109, 6                   |       |
| 3159           | 216 | 81/08/04                  | 1451:10                  | 1451:20                 | 100             | 90                  |                 | 5               |                          | AX    |
| 3160           | 216 | 81/08/04                  | 1531:05                  | 1531:40                 | 83              | 226                 | 2038            | 3               | 109, 7                   |       |
| 3161           | 216 | 81/08/04                  | 1842:25                  | 1843:30                 | 112             | 105                 | 889             | 2               | 109, 8                   |       |
| 3162           | 216 | 81/08/04                  | 1854:35                  | 1854:45                 | 100             | 113                 | 560             | 2               | 109, 8                   |       |
| 3163           | 216 | 81/08/04                  | 2041:50                  | 2043:15                 | 198             | 78                  |                 | 2               |                          |       |
| 3164           | 216 | 81/08/04                  | 2054:50                  | 2055:40                 | 65              | 61                  |                 | 2               |                          |       |
| 3165           | 216 | 81/08/04                  | 2332:00                  | 2332:25                 | 120             | 104                 | 1194            | 2               | 109, 9                   |       |
| 3166           | 216 | 81/08/04                  | 2345:55                  | 2346:15                 | 70              | 73                  |                 | 2               |                          |       |
| 3167           | 216 | 81/08/04                  | 2347:40                  | 2349:20                 | 165             | 77                  |                 | 2               |                          |       |
| 3168           | 216 | 81/08/04                  | 2351:55                  | 2352:15                 | 55              | 159                 | 982             | 2               | 109, 10                  |       |
| 3169           | 216 | 81/08/04                  | 2355:30                  | 2355:40                 | 55              | 69                  |                 | 2               |                          |       |
| 3170           | 216 | 81/08/04                  | 2359:20                  | 2359:30                 | 85              | 84                  |                 | 2               |                          |       |
| 3171           | 217 | 81/08/05                  | 0114:15                  | 0114:40                 | 100             | 60                  |                 | 2               |                          |       |
| 3172           | 217 | 81/08/05                  | 0244:55                  | 0245:15                 | 105             | 93                  |                 | 3               |                          |       |
| 3173           | 217 | 81/08/05                  | 0737:55                  | 0739:00                 | 245             | 1411                | 19363           | 5               | 109, 11                  | M     |
| 3174           | 217 | 81/08/05                  | 1053:25                  | 1053:50                 | 45              | 99                  |                 | 2               |                          |       |
| 3175           | 217 | 81/08/05                  | 1212:00                  | 1216:20                 | 689             | 88                  | 12256           | 5               | 109, 13                  | SN    |
| 3176           | 217 | 81/08/05                  | 1541:55                  | 1543:10                 | 223             | 224                 | 6637            | 2               | 109, 14                  |       |
| 3177           | 217 | 81/08/05                  | 2041:25                  | 2041:35                 | 25              | 72                  |                 | 2               |                          |       |
| 3178           | 218 | 81/08/06                  | 0424:25                  | 0424:50                 | 50              | 62                  |                 | 2               |                          |       |
| 3179           | 218 | 81/08/06                  | 0458:30                  | 0458:45                 | 25              | 87                  |                 | 2               |                          |       |
| 6476           | 218 | 81/08/06                  | 0817:09                  | 0818:25                 | 91              | 203                 | 4054            | 2               | 204, 13                  | M ,I  |
| 3180           | 218 | 81/08/06                  | 0920:25                  | 0920:30                 | 25              | 62                  |                 | 2               |                          |       |
| 3181           | 218 | 81/08/06                  | 0924:10                  | 0924:30                 | 53              | 136                 | 1255            | 3               | 109, 15                  |       |
| 3182           | 218 | 81/08/06                  | 1031:20                  | 1032:20                 | 75              | 368                 | 2587            | 4               | 109, 16                  | M     |
| 3183           | 218 | 81/08/06                  | 1352:25                  | 1352:50                 | 50              | 70                  |                 | 2               |                          |       |
| 3184           | 219 | 81/08/07                  | 0737:00                  | 0737:40                 | 190             | 65                  |                 | 2               |                          |       |
| 3185           | 219 | 81/08/07                  | 1200:05                  | 1202:15                 | 145             | 74                  |                 | 3               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 3186           | 219 | 81/08/07                  | 1951:50                  | 1952:50                 | 2570            | 125                 | 1.02E+05        | 3               | 110, 1                   | M ,SN,ES |
| 3187           | 220 | 81/08/08                  | 1329:00                  | 1329:10                 | 16              | 253                 | 1409            | 3               | 110, 2                   |          |
| 3188           | 220 | 81/08/08                  | 2125:35                  | 2133:20                 | 780             | 192                 | 22150           | 2               | 110, 3                   |          |
| 3189           | 220 | 81/08/08                  | 2320:45                  | 2321:05                 | 50              | 69                  |                 | 2               |                          |          |
| 3190           | 221 | 81/08/09                  | 0254:05                  | 0254:35                 | 60              | 74                  |                 | 2               |                          |          |
| 3191           | 221 | 81/08/09                  | 0256:35                  | 0257:10                 | 75              | 94                  |                 | 2               |                          |          |
| 3192           | 221 | 81/08/09                  | 1459:05                  | 1500:15                 | 296             | 186                 | 11929           | 5               | 110, 4                   |          |
| 3193           | 222 | 81/08/10                  | 0657:05                  | 0658:55                 | 579             | 12265               | 4.59E+05        | 10              | 110, 5                   | FS       |
| 3194           | 222 | 81/08/10                  | 0724:35                  | 0725:05                 | 118             | 109                 | 1377            | 2               | 110, 6                   |          |
| 3195           | 222 | 81/08/10                  | 0745:05                  | 0745:45                 | 86              | 1847                | 27426           | 10              | 110, 7                   | FS       |
| 6481           | 222 | 81/08/10                  | 1803:46                  | 1811:41                 | 593             | 73                  | 4279            | 2               | 204, 16                  | I        |
| 3196           | 222 | 81/08/10                  | 2243:45                  | 2244:30                 | 65              | 69                  |                 | 2               |                          |          |
| 3197           | 223 | 81/08/11                  | 0043:05                  | 0043:45                 | 75              | 68                  |                 | 2               |                          |          |
| 3198           | 223 | 81/08/11                  | 0150:10                  | 0150:30                 | 115             | 89                  |                 | 2               |                          |          |
| 3199           | 223 | 81/08/11                  | 0158:50                  | 0159:30                 | 95              | 99                  |                 | 2               |                          |          |
| 3200           | 223 | 81/08/11                  | 1434:00                  | 1448:55                 | 1007            | 744                 | 1.16E+05        | 5               | 110, 8                   | M ,ES    |
| 3201           | 223 | 81/08/11                  | 1807:10                  | 1808:25                 | 180             | 74                  |                 | 2               |                          |          |
| 3202           | 223 | 81/08/11                  | 2116:55                  | 2117:05                 | 25              | 63                  |                 | 2               |                          |          |
| 3203           | 224 | 81/08/12                  | 0106:00                  | 0106:45                 | 60              | 67                  |                 | 2               |                          | EW       |
| 3204           | 224 | 81/08/12                  | 0219:10                  | 0219:45                 | 105             | 63                  |                 | 2               |                          |          |
| 3205           | 224 | 81/08/12                  | 0221:40                  | 0222:35                 | 175             | 89                  |                 | 2               |                          |          |
| 3206           | 224 | 81/08/12                  | 0229:20                  | 0232:10                 | 713             | 557                 | 48672           | 5               | 110, 9                   | M        |
| 3207           | 224 | 81/08/12                  | 0338:00                  | 0338:15                 | 95              | 67                  |                 | 2               |                          |          |
| 3208           | 224 | 81/08/12                  | 0345:15                  | 0345:50                 | 279             | 252                 | 7281            | 5               | 110, 10                  |          |
| 3209           | 224 | 81/08/12                  | 0417:30                  | 0417:45                 | 148             | 887                 | 19316           | 7               | 110, 11                  |          |
| 3210           | 224 | 81/08/12                  | 0551:15                  | 0551:30                 | 40              | 76                  |                 | 2               |                          |          |
| 3211           | 224 | 81/08/12                  | 0628:50                  | 0629:15                 | 1498            | 19518               | 2.01E+06        | 5               | 110, 12                  | M ,SN    |
| 3212           | 224 | 81/08/12                  | 1025:20                  | 1026:15                 | 218             | 292                 | 9273            | 3               | 110, 13                  | M        |
| 3213           | 224 | 81/08/12                  | 1034:35                  | 1035:10                 | 50              | 67                  |                 | 2               |                          |          |
| 3214           | 224 | 81/08/12                  | 1253:40                  | 1254:30                 | 80              | 56                  |                 | 2               |                          |          |
| 3215           | 224 | 81/08/12                  | 1256:30                  | 1256:45                 | 45              | 54                  |                 | 2               |                          |          |
| 3216           | 224 | 81/08/12                  | 1300:15                  | 1300:35                 | 71              | 176                 | 1292            | 3               | 110, 15                  | M        |
| 3217           | 224 | 81/08/12                  | 2058:15                  | 2059:10                 | 85              | 79                  |                 | 2               |                          | EW       |
| 3218           | 224 | 81/08/12                  | 2100:20                  | 2100:35                 | 110             | 80                  |                 | 2               |                          |          |
| 3219           | 224 | 81/08/12                  | 2103:30                  | 2110:50                 | 1236            | 458                 | 1.23E+05        | 3               | 110, 16                  |          |
| 6482           | 224 | 81/08/12                  | 2225:46                  | 2226:05                 | 114             | 1293                | 24849           | 5               | 205, 1                   | M ,I ,FS |
| 6484           | 224 | 81/08/12                  | 2313:22                  | 2313:31                 | 35              | 55                  |                 | 2               |                          | I        |
| 6483           | 224 | 81/08/12                  | 2324:40                  | 2325:06                 | 104             | 74                  |                 | 2               |                          |          |
| 3220           | 225 | 81/08/13                  | 0003:30                  | 0003:55                 | 40              | 68                  |                 | 2               |                          |          |
| 3221           | 225 | 81/08/13                  | 0007:35                  | 0007:40                 | 35              | 72                  |                 | 2               |                          |          |
| 3222           | 225 | 81/08/13                  | 0029:40                  | 0031:20                 | 313             | 160                 | 8859            | 2               | 111, 1                   |          |
| 3223           | 225 | 81/08/13                  | 0207:30                  | 0210:20                 | 199             | 69                  |                 | 2               |                          |          |
| 3224           | 225 | 81/08/13                  | 0341:55                  | 0342:25                 | 277             | 304                 | 18248           | 4               | 111, 2                   | ND       |
| 3225           | 225 | 81/08/13                  | 0400:40                  | 0400:55                 | 32              | 134                 | 1117            | 8               | 111, 2                   |          |
| 3226           | 225 | 81/08/13                  | 0402:30                  | 0404:05                 | 180             | 62                  |                 | 2               |                          |          |
| 3227           | 225 | 81/08/13                  | 0505:25                  | 0507:20                 | 180             | 71                  |                 | 2               |                          |          |
| 3228           | 225 | 81/08/13                  | 0637:25                  | 0637:45                 | 83              | 133                 | 1443            | 2               | 111, 4                   |          |
| 3229           | 225 | 81/08/13                  | 0715:05                  | 0716:30                 | 487             | 3262                | 1.45E+05        | 7               | 111, 3                   | FS       |
| 3230           | 225 | 81/08/13                  | 1159:15                  | 1200:15                 | 479             | 315                 | 11969           | 2               | 111, 5                   |          |
| 3231           | 225 | 81/08/13                  | 1335:20                  | 1338:00                 | 503             | 297                 | 28465           | 2               | 111, 6                   |          |
| 3232           | 225 | 81/08/13                  | 1609:30                  | 1609:45                 | 30              | 81                  |                 | 2               |                          |          |
| 3233           | 225 | 81/08/13                  | 2134:55                  | 2137:40                 | 342             | 342                 | 17185           | 2               | 111, 7                   |          |
| 3234           | 225 | 81/08/13                  | 2237:40                  | 2237:55                 | 46              | 322                 | 2466            | 3               | 111, 8                   | M ,FS    |
| 3235           | 225 | 81/08/13                  | 2309:10                  | 2309:25                 | 25              | 95                  |                 | 2               |                          |          |
| 3236           | 226 | 81/08/14                  | 0015:00                  | 0015:40                 | 40              | 63                  |                 | 2               |                          |          |
| 3237           | 226 | 81/08/14                  | 0024:20                  | 0048:25                 | 1774            | 501                 | 40521           | 6               | 111, 10                  | EN       |
| 3238           | 226 | 81/08/14                  | 0504:15                  | 0504:25                 | 55              | 70                  |                 | 2               |                          |          |
| 3239           | 226 | 81/08/14                  | 0511:55                  | 0512:35                 | 122             | 189                 | 2404            | 2               | 111, 11                  |          |
| 3240           | 226 | 81/08/14                  | 0518:10                  | 0521:00                 | 473             | 231                 | 18957           | 2               | 111, 11                  |          |
| 3241           | 226 | 81/08/14                  | 0621:35                  | 0635:45                 | 1327            | 292                 | 39135           | 14              | 111, 12                  | M        |
| 3242           | 226 | 81/08/14                  | 0826:05                  | 0826:40                 | 105             | 66                  |                 | 2               |                          |          |
| 3243           | 226 | 81/08/14                  | 1320:05                  | 1320:25                 | 35              | 94                  |                 | 2               |                          |          |
| 3244           | 226 | 81/08/14                  | 1547:30                  | 1548:00                 | 70              | 79                  |                 | 2               |                          |          |
| 3245           | 226 | 81/08/14                  | 1823:35                  | 1825:10                 | 103             | 287                 | 5436            | 2               | 111, 14                  | EN       |
| 3246           | 226 | 81/08/14                  | 2309:20                  | 2310:30                 | 73              | 129                 | 1187            | 2               | 111, 15                  | EN       |
| 3247           | 227 | 81/08/15                  | 0125:45                  | 0127:20                 | 130             | 77                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3248           | 227 | 81/08/15                  | 0136:30                  | 0137:55                 | 356             | 135                 | 8726            | 5               | 111, 16                  |       |
| 3249           | 227 | 81/08/15                  | 0255:50                  | 0256:30                 | 111             | 115                 | 2310            | 2               | 112, 1                   | M     |
| 3250           | 227 | 81/08/15                  | 0640:35                  | 0645:20                 | 438             | 212                 | 23391           | 2               | 112, 3                   |       |
| 3251           | 228 | 81/08/16                  | 1725:15                  | 1727:30                 | 229             | 322                 | 17318           | 5               | 112, 4                   | M     |
| 3252           | 228 | 81/08/16                  | 1934:40                  | 1935:55                 | 198             | 69                  |                 | 2               |                          |       |
| 3253           | 228 | 81/08/16                  | 2234:25                  | 2235:15                 | 190             | 85                  |                 | 2               |                          |       |
| 3254           | 228 | 81/08/16                  | 2349:00                  | 2349:50                 | 175             | 85                  |                 | 2               |                          |       |
| 3255           | 229 | 81/08/17                  | 0024:25                  | 0025:25                 | 95              | 78                  |                 | 4               |                          | AX    |
| 3256           | 229 | 81/08/17                  | 0250:20                  | 0251:40                 | 462             | 1110                | 62131           | 8               | 112, 5                   | M     |
| 3257           | 229 | 81/08/17                  | 1349:35                  | 1350:15                 | 120             | 88                  |                 | 2               |                          |       |
| 3258           | 229 | 81/08/17                  | 2331:40                  | 2332:45                 | 155             | 88                  |                 | 2               |                          |       |
| 3259           | 230 | 81/08/18                  | 0504:10                  | 0504:45                 | 292             | 114                 | 4968            | 2               | 112, 7                   |       |
| 3260           | 230 | 81/08/18                  | 0640:15                  | 0641:00                 | 190             | 72                  |                 | 2               |                          |       |
| 3261           | 230 | 81/08/18                  | 1115:30                  | 1117:05                 | 216             | 495                 | 11714           | 5               | 112, 8                   | M     |
| 3262           | 230 | 81/08/18                  | 1121:35                  | 1121:45                 | 35              | 74                  |                 | 2               |                          |       |
| 3263           | 230 | 81/08/18                  | 1614:15                  | 1614:55                 | 75              | 78                  |                 | 2               |                          |       |
| 3264           | 230 | 81/08/18                  | 1741:25                  | 1741:55                 | 115             | 61                  |                 | 2               |                          |       |
| 3265           | 231 | 81/08/19                  | 0322:10                  | 0323:05                 | 105             | 76                  |                 | 2               |                          |       |
| 3266           | 231 | 81/08/19                  | 1238:50                  | 1239:05                 | 40              | 69                  |                 | 2               |                          |       |
| 3267           | 231 | 81/08/19                  | 1246:05                  | 1251:55                 | 697             | 163                 | 21469           | 2               | 112, 9                   |       |
| 3268           | 231 | 81/08/19                  | 1551:05                  | 1551:20                 | 50              | 83                  |                 | 2               |                          |       |
| 3269           | 231 | 81/08/19                  | 2136:25                  | 2138:00                 | 280             | 127                 | 8488            | 6               | 112, 10                  |       |
| 3270           | 232 | 81/08/20                  | 0225:35                  | 0226:30                 | 183             | 118                 | 2892            | 2               | 112, 11                  |       |
| 3271           | 232 | 81/08/20                  | 0415:25                  | 0416:00                 | 155             | 69                  |                 | 2               |                          |       |
| 3272           | 232 | 81/08/20                  | 1224:55                  | 1225:20                 | 35              | 75                  |                 | 2               |                          |       |
| 3273           | 232 | 81/08/20                  | 1327:45                  | 1328:05                 | 61              | 119                 | 1201            | 2               | 112, 12                  | M     |
| 3274           | 232 | 81/08/20                  | 1553:45                  | 1554:40                 | 148             | 185                 | 2969            | 2               | 112, 13                  |       |
| 3275           | 232 | 81/08/20                  | 1634:25                  | 1635:05                 | 90              | 61                  |                 | 2               |                          |       |
| 3276           | 232 | 81/08/20                  | 1845:55                  | 1847:35                 | 226             | 168                 | 10771           | 2               | 112, 14                  |       |
| 3277           | 232 | 81/08/20                  | 2032:25                  | 2033:05                 | 40              | 83                  |                 | 2               |                          |       |
| 3278           | 232 | 81/08/20                  | 2347:30                  | 2349:25                 | 203             | 169                 | 3386            | 6               | 112, 15                  |       |
| 3279           | 233 | 81/08/21                  | 0057:05                  | 0057:40                 | 57              | 117                 | 1121            | 2               | 112, 16                  |       |
| 3280           | 233 | 81/08/21                  | 0212:45                  | 0213:40                 | 196             | 923                 | 32068           | 4               | 113, 1                   | M     |
| 3281           | 233 | 81/08/21                  | 0410:55                  | 0411:55                 | 75              | 79                  |                 | 2               |                          |       |
| 3282           | 233 | 81/08/21                  | 0433:15                  | 0434:45                 | 267             | 373                 | 12178           | 4               | 113, 3                   | FS    |
| 3283           | 233 | 81/08/21                  | 0720:55                  | 0721:55                 | 124             | 113                 | 2179            | 2               | 113, 4                   | M     |
| 3284           | 233 | 81/08/21                  | 0853:05                  | 0853:05                 | 838             | 530                 | 1.16E+05        | 8               | 113, 6                   | M,SA  |
| 3285           | 233 | 81/08/21                  | 1212:00                  | 1212:25                 | 105             | 75                  |                 | 2               |                          |       |
| 3286           | 233 | 81/08/21                  | 1221:50                  | 1222:10                 | 50              | 65                  |                 | 2               |                          |       |
| 3287           | 233 | 81/08/21                  | 1627:25                  | 1627:35                 | 179             | 1486                | 16666           | 6               | 113, 7                   | FS    |
| 3288           | 233 | 81/08/21                  | 1714:00                  | 1715:10                 | 122             | 122                 | 2384            | 2               | 113, 8                   |       |
| 3289           | 233 | 81/08/21                  | 1722:35                  | 1724:50                 | 195             | 62                  |                 | 2               |                          |       |
| 3290           | 233 | 81/08/21                  | 2122:40                  | 2123:15                 | 85              | 85                  |                 | 2               |                          |       |
| 3291           | 233 | 81/08/21                  | 2125:30                  | 2126:15                 | 70              | 69                  |                 | 2               |                          |       |
| 3292           | 233 | 81/08/21                  | 2312:35                  | 2314:10                 | 190             | 67                  |                 | 2               |                          |       |
| 3293           | 233 | 81/08/21                  | 2338:05                  | 2342:30                 | 305             | 72                  | 3247            | 3               | 113, 9                   | AX    |
| 3294           | 234 | 81/08/22                  | 0111:15                  | 0112:15                 | 70              | 97                  |                 | 2               |                          | ND    |
| 3295           | 234 | 81/08/22                  | 0241:45                  | 0243:15                 | 129             | 140                 | 3322            | 3               | 113, 10                  |       |
| 3296           | 234 | 81/08/22                  | 0358:15                  | 0359:40                 | 150             | 96                  |                 | 2               |                          |       |
| 3297           | 234 | 81/08/22                  | 0732:50                  | 0734:10                 | 125             | 92                  |                 | 2               |                          |       |
| 3298           | 234 | 81/08/22                  | 0846:30                  | 0846:40                 | 25              | 157                 | 509             | 2               | 113, 11                  |       |
| 3299           | 234 | 81/08/22                  | 1211:55                  | 1212:55                 | 90              | 85                  |                 | 2               |                          |       |
| 3300           | 234 | 81/08/22                  | 1442:40                  | 1443:45                 | 190             | 107                 | 1567            | 2               | 113, 12                  |       |
| 3301           | 234 | 81/08/22                  | 1453:50                  | 1455:10                 | 93              | 155                 | 4717            | 2               | 113, 13                  | ES    |
| 3302           | 235 | 81/08/23                  | 0229:00                  | 0229:35                 | 55              | 84                  |                 | 2               |                          |       |
| 3303           | 235 | 81/08/23                  | 0851:50                  | 0853:55                 | 140             | 70                  |                 | 2               |                          |       |
| 3304           | 235 | 81/08/23                  | 1531:45                  | 1532:00                 | 30              | 102                 | 682             | 2               |                          |       |
| 3305           | 235 | 81/08/23                  | 2055:10                  | 2057:15                 | 651             | 193                 | 27294           | 6               | 113, 14                  | AX    |
| 3306           | 235 | 81/08/23                  | 2116:45                  | 2117:35                 | 115             | 57                  |                 | 2               |                          |       |
| 3307           | 235 | 81/08/23                  | 2141:20                  | 2142:35                 | 130             | 73                  |                 | 2               |                          |       |
| 3308           | 235 | 81/08/23                  | 2231:10                  | 2235:45                 | 872             | 238                 | 85460           | 5               | 113, 15                  | AX    |
| 3309           | 235 | 81/08/23                  | 2310:25                  | 2322:45                 | 896             | 420                 | 81300           | 11              | 113, 16                  |       |
| 3310           | 236 | 81/08/24                  | 0044:50                  | 0101:20                 | 1305            | 592                 | 1.29E+05        | 15              | 114, 1                   | M,AX  |
| 3311           | 236 | 81/08/24                  | 0147:00                  | 0149:50                 | 333             | 143                 | 9666            | 4               | 114, 2                   | AX    |
| 3312           | 236 | 81/08/24                  | 0233:34                  | 0233:45                 | 35              | 79                  |                 | 2               |                          |       |
| 3313           | 236 | 81/08/24                  | 0325:25                  | 0326:00                 | 122             | 344                 | 13830           | 4               | 114, 3                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3314           | 236 | 81/08/24                  | 1004:05                  | 1004:45                 | 73              | 115                 | 1786            | 2               | 114, 4                   | SA    |
| 3315           | 236 | 81/08/24                  | 1907:20                  | 1909:45                 | 456             | 145                 | 15389           | 6               | 114, 5                   |       |
| 3316           | 236 | 81/08/24                  | 2045:45                  | 2047:00                 | 615             | 365                 | 37281           | 5               | 114, 6                   |       |
| 3317           | 236 | 81/08/24                  | 2129:30                  | 2130:25                 | 150             | 76                  |                 | 4               |                          |       |
| 3318           | 236 | 81/08/24                  | 2228:15                  | 2231:00                 | 265             | 89                  | 14514           | 2               | 114, 7                   |       |
| 3319           | 236 | 81/08/24                  | 2307:10                  | 2313:30                 | 569             | 96                  | 8133            | 9               | 114, 8                   |       |
| 3320           | 237 | 81/08/25                  | 0039:00                  | 0039:40                 | 65              | 99                  |                 | 2               |                          |       |
| 3321           | 237 | 81/08/25                  | 0513:05                  | 0513:55                 | 120             | 145                 | 4582            | 2               | 114, 9                   | DG    |
| 3322           | 237 | 81/08/25                  | 0717:30                  | 0717:45                 | 85              | 93                  |                 | 2               |                          |       |
| 3323           | 237 | 81/08/25                  | 1319:50                  | 1320:15                 | 60              | 76                  |                 | 2               |                          |       |
| 3324           | 237 | 81/08/25                  | 1942:45                  | 1943:15                 | 85              | 77                  |                 | 2               |                          |       |
| 3325           | 237 | 81/08/25                  | 2044:35                  | 2045:30                 | 145             | 71                  |                 | 3               |                          |       |
| 3326           | 237 | 81/08/25                  | 2119:30                  | 2120:40                 | 120             | 84                  |                 | 5               |                          |       |
| 3327           | 237 | 81/08/25                  | 2220:50                  | 2222:20                 | 193             | 409                 | 23498           | 6               | 114, 10                  | M ,AX |
| 3328           | 237 | 81/08/25                  | 2257:20                  | 2258:45                 | 124             | 136                 | 5289            | 5               | 114, 12                  |       |
| 3329           | 237 | 81/08/25                  | 2302:50                  | 2304:35                 | 226             | 122                 | 7222            | 14              | 114, 12                  | AX    |
| 3330           | 238 | 81/08/26                  | 0043:20                  | 0044:30                 | 180             | 79                  |                 | 14              |                          | AX    |
| 3331           | 238 | 81/08/26                  | 0332:05                  | 0337:15                 | 649             | 112                 | 14426           | 2               | 114, 13                  |       |
| 3332           | 238 | 81/08/26                  | 1013:30                  | 1013:45                 | 30              | 73                  |                 | 14              |                          |       |
| 3333           | 238 | 81/08/26                  | 1751:15                  | 1751:30                 | 73              | 208                 | 1922            | 2               | 114, 14                  |       |
| 3334           | 238 | 81/08/26                  | 2026:20                  | 2027:50                 | 558             | 165                 | 30909           | 5               |                          | AX    |
| 3335           | 238 | 81/08/26                  | 2106:05                  | 2114:25                 | 598             | 156                 | 10946           | 2               | 114, 15                  |       |
| 3336           | 238 | 81/08/26                  | 2121:30                  | 2123:35                 | 191             | 120                 | 4613            | 2               | 114, 15                  |       |
| 3337           | 238 | 81/08/26                  | 2207:50                  | 2210:00                 | 291             | 253                 | 27945           | 5               | 114, 16                  | AX    |
| 3338           | 239 | 81/08/27                  | 0303:50                  | 0304:25                 | 126             | 104                 | 1754            | 2               | 115, 1                   |       |
| 3339           | 239 | 81/08/27                  | 0449:45                  | 0452:45                 | 454             | 182                 | 20804           | 2               | 115, 2                   |       |
| 3340           | 239 | 81/08/27                  | 0458:40                  | 0459:55                 | 200             | 184                 | 8548            | 4               | 115, 2                   |       |
| 3341           | 239 | 81/08/27                  | 0826:10                  | 0826:35                 | 68              | 111                 | 723             | 2               | 115, 3                   |       |
| 3342           | 239 | 81/08/27                  | 1315:00                  | 1315:25                 | 80              | 75                  |                 | 2               |                          |       |
| 3343           | 239 | 81/08/27                  | 1726:35                  | 1726:45                 | 35              | 131                 | 347             | 2               | 115, 4                   |       |
| 3344           | 239 | 81/08/27                  | 1755:40                  | 1756:05                 | 75              | 58                  |                 | 2               |                          |       |
| 3345           | 239 | 81/08/27                  | 1859:50                  | 1900:35                 | 85              | 59                  |                 | 2               |                          |       |
| 3346           | 239 | 81/08/27                  | 2213:25                  | 2214:05                 | 100             | 148                 | 5001            | 2               | 115, 5                   | ND    |
| 3347           | 240 | 81/08/28                  | 0013:50                  | 0015:45                 | 170             | 69                  |                 | 2               |                          |       |
| 3348           | 240 | 81/08/28                  | 0112:55                  | 0118:45                 | 382             | 69                  | 3324            | 5               | 115, 6                   | AX    |
| 3349           | 240 | 81/08/28                  | 0136:45                  | 0137:40                 | 110             | 129                 | 3481            | 5               | 115, 7                   |       |
| 3350           | 240 | 81/08/28                  | 0145:45                  | 0146:40                 | 120             | 72                  |                 | 2               |                          |       |
| 3351           | 240 | 81/08/28                  | 0257:00                  | 0257:25                 | 45              | 63                  |                 | 2               |                          |       |
| 3352           | 240 | 81/08/28                  | 0334:45                  | 0335:20                 | 52              | 170                 | 2924            | 2               | 115, 8                   |       |
| 3353           | 240 | 81/08/28                  | 0507:00                  | 0507:10                 | 30              | 72                  |                 | 2               |                          |       |
| 3354           | 240 | 81/08/28                  | 0750:30                  | 0751:10                 | 60              | 182                 | 2420            | 4               | 115, 9                   |       |
| 3355           | 240 | 81/08/28                  | 1112:55                  | 1113:10                 | 40              | 77                  |                 | 2               |                          |       |
| 3356           | 240 | 81/08/28                  | 1214:45                  | 1214:55                 | 127             | 268                 | 5645            | 4               | 115, 10                  | SN    |
| 3357           | 240 | 81/08/28                  | 1350:05                  | 1350:15                 | 112             | 117                 | 1550            | 2               | 115, 11                  |       |
| 3358           | 240 | 81/08/28                  | 1408:25                  | 1409:30                 | 130             | 81                  |                 | 2               |                          |       |
| 3359           | 240 | 81/08/28                  | 1424:15                  | 1425:55                 | 626             | 76                  | 5230            | 2               | 115, 12                  |       |
| 3360           | 240 | 81/08/28                  | 1724:10                  | 1724:45                 | 130             | 66                  |                 | 2               |                          |       |
| 3361           | 240 | 81/08/28                  | 1836:25                  | 1841:25                 | 703             | 159                 | 25218           | 2               | 115, 13                  |       |
| 3362           | 240 | 81/08/28                  | 1852:20                  | 1852:50                 | 60              | 65                  |                 | 2               |                          |       |
| 3363           | 240 | 81/08/28                  | 1922:55                  | 1923:40                 | 146             | 599                 | 11124           | 5               | 115, 14                  |       |
| 3364           | 240 | 81/08/28                  | 2017:05                  | 2017:55                 | 95              | 72                  |                 | 2               |                          |       |
| 3365           | 240 | 81/08/28                  | 2028:45                  | 2029:25                 | 204             | 438                 | 4986            | 5               | 115, 15                  |       |
| 3366           | 240 | 81/08/28                  | 2035:50                  | 2036:30                 | 60              | 181                 | 1533            | 2               | 115, 15                  |       |
| 3367           | 240 | 81/08/28                  | 2054:20                  | 2056:10                 | 190             | 74                  |                 | 9               |                          | AX    |
| 3368           | 240 | 81/08/28                  | 2149:35                  | 2150:40                 | 134             | 232                 | 9721            | 7               | 115, 16                  |       |
| 3369           | 240 | 81/08/28                  | 2228:30                  | 2231:55                 | 547             | 81                  | 5085            | 4               | 116, 1                   |       |
| 3370           | 241 | 81/08/29                  | 0244:00                  | 0244:20                 | 65              | 62                  |                 | 2               |                          |       |
| 3371           | 241 | 81/08/29                  | 0452:45                  | 0454:10                 | 180             | 251                 | 6769            | 3               | 116, 2                   |       |
| 3372           | 241 | 81/08/29                  | 0633:40                  | 0643:10                 | 612             | 120                 | 3361            | 2               | 116, 3                   | EN    |
| 3373           | 241 | 81/08/29                  | 0751:40                  | 0752:35                 | 95              | 106                 | 1805            | 2               | 116, 4                   |       |
| 3374           | 241 | 81/08/29                  | 0758:25                  | 0759:45                 | 167             | 249                 | 2777            | 4               | 116, 4                   |       |
| 3375           | 241 | 81/08/29                  | 1056:40                  | 1058:15                 | 197             | 143                 | 1659            | 2               | 116, 6                   |       |
| 3377           | 241 | 81/08/29                  | 1106:25                  | 1106:35                 | 50              | 56                  |                 | 2               |                          |       |
| 3376           | 241 | 81/08/29                  | 1303:10                  | 1304:30                 | 163             | 1378                | 25853           | 5               | 116, 5                   | M ,FS |
| 3378           | 241 | 81/08/29                  | 1535:30                  | 1537:30                 | 195             | 84                  |                 | 2               |                          |       |
| 3379           | 241 | 81/08/29                  | 1554:25                  | 1555:05                 | 65              | 94                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 3380           | 241 | 81/08/29                  | 1857:10                  | 1857:25                 | 115             | 63                  |                 | 2               |                          |        |
| 3381           | 241 | 81/08/29                  | 2016:15                  | 2023:50                 | 2730            | 139                 | 51489           | 15              | 116, 7                   |        |
| 3382           | 241 | 81/08/29                  | 2143:35                  | 2143:40                 | 30              | 78                  |                 | 2               |                          |        |
| 3383           | 241 | 81/08/29                  | 2218:35                  | 2225:10                 | 615             | 177                 | 31426           | 15              | 116, 8                   |        |
| 3384           | 242 | 81/08/30                  | 0119:00                  | 0120:25                 | 667             | 376                 | 33184           | 5               | 116, 9                   | M      |
| 3385           | 242 | 81/08/30                  | 0231:45                  | 0233:55                 | 223             | 105                 | 3866            | 2               | 116, 10                  |        |
| 3386           | 242 | 81/08/30                  | 0306:00                  | 0306:10                 | 70              | 93                  |                 | 2               |                          |        |
| 3387           | 242 | 81/08/30                  | 0312:45                  | 0314:55                 | 150             | 85                  |                 | 2               |                          |        |
| 3388           | 242 | 81/08/30                  | 0907:25                  | 0909:55                 | 349             | 3118                | 2.11E+05        | 10              | 116, 11                  | M, FS  |
| 3389           | 242 | 81/08/30                  | 0926:45                  | 0927:35                 | 105             | 76                  |                 | 2               |                          |        |
| 3390           | 242 | 81/08/30                  | 1254:45                  | 1255:10                 | 135             | 93                  |                 | 3               |                          |        |
| 6527           | 242 | 81/08/30                  | 1337:21                  | 1340:56                 | 398             | 759                 | 60389           | 2               | 206, 2                   | M, I   |
| 3391           | 242 | 81/08/30                  | 1543:10                  | 1543:30                 | 55              | 69                  |                 | 2               |                          |        |
| 3392           | 242 | 81/08/30                  | 1544:40                  | 1545:05                 | 85              | 82                  |                 | 2               |                          |        |
| 3393           | 242 | 81/08/30                  | 1605:40                  | 1606:00                 | 35              | 72                  |                 | 2               |                          |        |
| 3394           | 242 | 81/08/30                  | 1849:05                  | 1849:55                 | 301             | 463                 | 18013           | 4               | 116, 13                  |        |
| 3395           | 242 | 81/08/30                  | 2014:05                  | 2014:20                 | 39              | 123                 | 1218            | 3               | 116, 14                  |        |
| 3396           | 242 | 81/08/30                  | 2031:30                  | 2034:40                 | 427             | 65                  | 3465            | 2               | 116, 15                  |        |
| 3397           | 242 | 81/08/30                  | 2202:00                  | 2202:45                 | 131             | 230                 | 2584            | 4               | 116, 16                  |        |
| 3398           | 242 | 81/08/30                  | 2211:20                  | 2215:20                 | 475             | 84                  | 7552            | 4               | 116, 16                  |        |
| 3399           | 242 | 81/08/30                  | 2357:20                  | 2358:10                 | 98              | 137                 | 1870            | 3               | 117, 1                   |        |
| 3400           | 243 | 81/08/31                  | 0048:30                  | 0049:30                 | 85              | 92                  |                 | 2               |                          |        |
| 3401           | 243 | 81/08/31                  | 0104:40                  | 0104:55                 | 97              | 213                 | 2478            | 4               | 117, 2                   |        |
| 3402           | 243 | 81/08/31                  | 0107:35                  | 0108:00                 | 151             | 227                 | 2541            | 4               | 117, 2                   |        |
| 3403           | 243 | 81/08/31                  | 0111:25                  | 0112:00                 | 143             | 229                 | 4692            | 3               | 117, 2                   |        |
| 3404           | 243 | 81/08/31                  | 0117:15                  | 0118:40                 | 248             | 365                 | 11606           | 5               | 117, 2                   |        |
| 3405           | 243 | 81/08/31                  | 0543:15                  | 0545:55                 | 200             | 100                 | 3362            | 2               |                          |        |
| 3406           | 243 | 81/08/31                  | 0548:35                  | 0549:30                 | 187             | 73                  |                 | 2               |                          |        |
| 3407           | 243 | 81/08/31                  | 0722:25                  | 0723:20                 | 413             | 1108                | 83427           | 5               | 117, 3                   | M, FS  |
| 3408           | 243 | 81/08/31                  | 0911:40                  | 0912:10                 | 139             | 143                 | 3103            | 2               | 117, 5                   |        |
| 3409           | 243 | 81/08/31                  | 1350:25                  | 1354:35                 | 700             | 1017                | 1.55E+05        | 4               | 117, 6                   | M, DG  |
| 3410           | 243 | 81/08/31                  | 1508:35                  | 1508:50                 | 30              | 56                  |                 | 2               |                          |        |
| 3411           | 243 | 81/08/31                  | 1539:55                  | 1540:25                 | 70              | 77                  |                 | 2               |                          |        |
| 3412           | 243 | 81/08/31                  | 1809:50                  | 1810:05                 | 391             | 133                 | 8165            | 2               | 117, 8                   | SN, AX |
| 3413           | 243 | 81/08/31                  | 1949:10                  | 1950:20                 | 226             | 170                 | 8335            | 3               | 117, 9                   | AX     |
| 3414           | 244 | 81/09/01                  | 0401:35                  | 0402:05                 | 80              | 294                 | 4138            | 3               | 117, 10                  |        |
| 3415           | 244 | 81/09/01                  | 0539:20                  | 0542:05                 | 304             | 483                 | 18253           | 2               | 117, 11                  |        |
| 3416           | 244 | 81/09/01                  | 1649:05                  | 1652:35                 | 295             | 92                  | 4353            | 2               | 117, 12                  |        |
| 3417           | 245 | 81/09/02                  | 0346:30                  | 0347:15                 | 150             | 75                  |                 | 2               |                          |        |
| 3418           | 245 | 81/09/02                  | 0534:05                  | 0534:45                 | 202             | 1098                | 32671           | 5               | 117, 13                  | M, FS  |
| 3419           | 245 | 81/09/02                  | 0549:15                  | 0550:30                 | 140             | 68                  |                 | 2               |                          |        |
| 3420           | 245 | 81/09/02                  | 0846:30                  | 0847:25                 | 140             | 94                  |                 | 2               |                          |        |
| 3421           | 245 | 81/09/02                  | 1814:05                  | 1815:10                 | 65              | 73                  |                 | 2               |                          |        |
| 3422           | 245 | 81/09/02                  | 2004:45                  | 2007:30                 | 319             | 88                  | 3886            | 10              | 117, 15                  |        |
| 3423           | 246 | 81/09/03                  | 0411:40                  | 0412:25                 | 80              | 68                  |                 | 2               |                          |        |
| 3424           | 246 | 81/09/03                  | 0907:20                  | 0907:35                 | 30              | 60                  |                 | 2               |                          |        |
| 3425           | 246 | 81/09/03                  | 1518:05                  | 1518:15                 | 39              | 120                 | 883             | 2               | 117, 16                  |        |
| 3426           | 246 | 81/09/03                  | 1612:35                  | 1613:05                 | 50              | 64                  |                 | 2               |                          |        |
| 3427           | 246 | 81/09/03                  | 1639:20                  | 1640:55                 | 237             | 109                 | 4856            | 2               | 118, 1                   |        |
| 3428           | 246 | 81/09/03                  | 2014:05                  | 2015:00                 | 75              | 79                  |                 | 2               |                          |        |
| 3429           | 246 | 81/09/03                  | 2129:30                  | 2129:55                 | 53              | 341                 | 1924            | 4               | 118, 2                   | FS     |
| 3430           | 246 | 81/09/03                  | 2255:50                  | 2257:40                 | 1432            | 4869                | 8.98E+05        | 6               | 118, 3                   |        |
| 3431           | 247 | 81/09/04                  | 1253:20                  | 1253:45                 | 60              | 97                  |                 | 2               |                          |        |
| 3432           | 247 | 81/09/04                  | 1559:25                  | 1559:45                 | 180             | 448                 | 7557            | 4               | 118, 4                   |        |
| 3433           | 248 | 81/09/05                  | 0021:00                  | 0021:20                 | 60              | 72                  |                 | 2               |                          |        |
| 3434           | 248 | 81/09/05                  | 0343:15                  | 0343:40                 | 45              | 100                 | 1383            | 2               |                          |        |
| 3435           | 248 | 81/09/05                  | 0500:50                  | 0501:05                 | 25              | 99                  |                 | 2               |                          |        |
| 3436           | 248 | 81/09/05                  | 0538:20                  | 0538:50                 | 70              | 73                  |                 | 2               |                          |        |
| 3437           | 248 | 81/09/05                  | 0659:20                  | 0659:50                 | 60              | 1314                | 12884           | 9               | 118, 5                   |        |
| 3438           | 248 | 81/09/05                  | 0706:25                  | 0706:55                 | 134             | 494                 | 13240           | 8               | 118, 5                   |        |
| 6530           | 248 | 81/09/05                  | 0814:02                  | 0832:43                 | 1933            | 2078                | 1.42E+05        | 5               | 206, 6                   | I, FS  |
| 3439           | 248 | 81/09/05                  | 0949:00                  | 0950:15                 | 170             | 87                  |                 | 2               |                          |        |
| 3440           | 248 | 81/09/05                  | 0953:45                  | 0954:05                 | 45              | 58                  |                 | 2               |                          |        |
| 3441           | 248 | 81/09/05                  | 1001:10                  | 1002:10                 | 140             | 64                  |                 | 2               |                          |        |
| 3442           | 248 | 81/09/05                  | 1027:50                  | 1028:50                 | 84              | 360                 | 6664            | 2               | 118, 6                   |        |
| 3443           | 248 | 81/09/05                  | 1109:45                  | 1111:15                 | 148             | 127                 | 2961            | 2               | 118, 7                   |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3444           | 248 | 81/09/05                  | 1118:45                  | 1119:10                 | 185             | 68                  |                 | 2               |                          |       |
| 3445           | 248 | 81/09/05                  | 1150:55                  | 1151:30                 | 88              | 111                 | 857             | 2               | 118, 8                   |       |
| 3446           | 248 | 81/09/05                  | 1556:35                  | 1557:15                 | 85              | 67                  |                 | 2               |                          |       |
| 3447           | 248 | 81/09/05                  | 1607:20                  | 1608:10                 | 183             | 336                 | 9623            | 4               | 118, 9                   |       |
| 3448           | 248 | 81/09/05                  | 1901:30                  | 1902:00                 | 900             | 430                 | 76542           | 3               | 118, 10                  | SN    |
| 3449           | 248 | 81/09/05                  | 2041:40                  | 2042:00                 | 50              | 103                 | 1102            | 2               |                          |       |
| 3450           | 248 | 81/09/05                  | 2058:50                  | 2059:15                 | 81              | 220                 | 5360            | 3               | 118, 11                  |       |
| 3451           | 248 | 81/09/05                  | 2114:10                  | 2114:25                 | 27              | 165                 | 974             | 2               | 118, 12                  |       |
| 3452           | 248 | 81/09/05                  | 2116:20                  | 2116:30                 | 35              | 73                  |                 | 2               | 118, 12                  |       |
| 3453           | 248 | 81/09/05                  | 2123:35                  | 2124:40                 | 139             | 140                 | 2672            | 2               | 118, 12                  |       |
| 3454           | 248 | 81/09/05                  | 2238:10                  | 2238:45                 | 220             | 140                 | 3293            | 2               | 118, 13                  |       |
| 3455           | 248 | 81/09/05                  | 2358:50                  | 0001:30                 | 525             | 2848                | 2.97E+05        | 8               | 118, 14                  | M     |
| 3456           | 249 | 81/09/06                  | 0316:20                  | 0316:30                 | 26              | 292                 | 1425            | 4               | 118, 16                  |       |
| 3457           | 249 | 81/09/06                  | 0502:05                  | 0502:10                 | 28              | 157                 | 450             | 2               | 119, 1                   |       |
| 6531           | 249 | 81/09/06                  | 0754:09                  | 0754:47                 | 56              | 120                 | 1949            | 2               | 206, 7                   | I ,SA |
| 6532           | 249 | 81/09/06                  | 0841:11                  | 0842:21                 | 103             | 78                  |                 | 2               |                          | I     |
| 3458           | 249 | 81/09/06                  | 1007:50                  | 1008:35                 | 75              | 84                  |                 | 2               |                          |       |
| 3459           | 249 | 81/09/06                  | 1246:20                  | 1249:35                 | 209             | 156                 | 2187            | 2               | 119, 2                   |       |
| 3460           | 249 | 81/09/06                  | 1624:40                  | 1624:50                 | 15              | 58                  |                 | 2               |                          |       |
| 3461           | 249 | 81/09/06                  | 1626:30                  | 1627:05                 | 65              | 54                  |                 | 2               |                          |       |
| 3462           | 249 | 81/09/06                  | 1733:10                  | 1733:35                 | 35              | 77                  |                 | 2               |                          |       |
| 3463           | 249 | 81/09/06                  | 1812:30                  | 1812:45                 | 434             | 92                  | 8026            | 5               | 119, 3                   | EN    |
| 3464           | 249 | 81/09/06                  | 1905:35                  | 1906:00                 | 158             | 149                 | 2352            | 2               | 119, 4                   |       |
| 3465           | 249 | 81/09/06                  | 1935:10                  | 1935:40                 | 139             | 130                 | 3013            | 2               | 119, 5                   |       |
| 3466           | 249 | 81/09/06                  | 2102:00                  | 2109:45                 | 1070            | 1348                | 1.84E+05        | 5               | 119, 6                   |       |
| 3467           | 249 | 81/09/06                  | 2353:10                  | 2353:35                 | 72              | 1551                | 20789           | 9               | 119, 7                   | M ,FS |
| 3468           | 250 | 81/09/07                  | 0006:15                  | 0011:20                 | 1080            | 3060                | 4.68E+05        | 4               | 119, 7                   |       |
| 3469           | 250 | 81/09/07                  | 0118:40                  | 0120:40                 | 223             | 2408                | 67546           | 4               | 119, 8                   | M ,FS |
| 3470           | 250 | 81/09/07                  | 0124:45                  | 0125:50                 | 116             | 109                 | 2073            | 2               | 119, 8                   |       |
| 3471           | 250 | 81/09/07                  | 0155:30                  | 0155:55                 | 30              | 71                  |                 | 2               |                          |       |
| 3472           | 250 | 81/09/07                  | 0203:15                  | 0203:40                 | 112             | 838                 | 13564           | 5               | 119, 10                  | FS    |
| 3473           | 250 | 81/09/07                  | 0310:40                  | 0312:55                 | 1179            | 106                 | 18062           | 2               | 119, 11                  |       |
| 3474           | 250 | 81/09/07                  | 0500:40                  | 0501:05                 | 58              | 254                 | 1620            | 4               | 119, 12                  |       |
| 3475           | 250 | 81/09/07                  | 0503:40                  | 0503:55                 | 35              | 91                  |                 | 2               | 119, 12                  |       |
| 3476           | 250 | 81/09/07                  | 0509:10                  | 0511:40                 | 984             | 25878               | 1.39E+06        | 14              | 119, 12                  |       |
| 3477           | 250 | 81/09/07                  | 0639:45                  | 0645:50                 | 654             | 139                 | 5102            | 2               | 119, 13                  |       |
| 6536           | 250 | 81/09/07                  | 0956:52                  | 0957:11                 | 26              | 63                  |                 | 2               |                          | I     |
| 3478           | 250 | 81/09/07                  | 1134:55                  | 1136:15                 | 496             | 824                 | 39966           | 4               | 119, 14                  | M     |
| 3479           | 250 | 81/09/07                  | 1256:25                  | 1257:00                 | 120             | 63                  |                 | 2               |                          |       |
| 3480           | 250 | 81/09/07                  | 1404:45                  | 1405:45                 | 79              | 202                 | 1335            | 3               | 119, 15                  |       |
| 3481           | 250 | 81/09/07                  | 1416:05                  | 1416:55                 | 135             | 80                  |                 | 2               |                          |       |
| 3482           | 250 | 81/09/07                  | 1444:10                  | 1446:50                 | 325             | 370                 | 9778            | 3               | 119, 16                  |       |
| 3483           | 250 | 81/09/07                  | 1715:55                  | 1716:20                 | 55              | 59                  |                 | 2               |                          |       |
| 3484           | 250 | 81/09/07                  | 2054:15                  | 2057:00                 | 464             | 262                 | 25514           | 2               | 120, 1                   |       |
| 3485           | 250 | 81/09/07                  | 2222:25                  | 2223:20                 | 455             | 8504                | 4.14E+05        | 13              | 120, 2                   | M     |
| 3486           | 251 | 81/09/08                  | 0016:05                  | 0016:50                 | 158             | 166                 | 1996            | 2               | 120, 4                   |       |
| 3487           | 251 | 81/09/08                  | 0338:20                  | 0339:00                 | 156             | 162                 | 3451            | 2               | 120, 5                   |       |
| 3488           | 251 | 81/09/08                  | 0433:55                  | 0434:05                 | 30              | 78                  |                 | 2               |                          |       |
| 3489           | 251 | 81/09/08                  | 0450:05                  | 0450:35                 | 40              | 75                  |                 | 2               |                          |       |
| 3490           | 251 | 81/09/08                  | 0452:20                  | 0454:05                 | 485             | 182                 | 16085           | 2               | 120, 6                   |       |
| 3491           | 251 | 81/09/08                  | 0624:55                  | 0625:05                 | 36              | 115                 | 550             | 2               | 120, 7                   |       |
| 3492           | 251 | 81/09/08                  | 0626:15                  | 0626:35                 | 45              | 86                  |                 | 2               | 120, 7                   |       |
| 3493           | 251 | 81/09/08                  | 1055:35                  | 1055:55                 | 45              | 338                 | 2705            | 4               | 120, 8                   |       |
| 3494           | 251 | 81/09/08                  | 1226:30                  | 1227:40                 | 125             | 60                  |                 | 2               |                          |       |
| 3495           | 251 | 81/09/08                  | 1535:25                  | 1536:15                 | 277             | 331                 | 12758           | 2               | 120, 9                   | ND    |
| 3496           | 251 | 81/09/08                  | 1700:00                  | 1700:40                 | 866             | 414                 | 54251           | 3               | 120, 10                  | SN    |
| 3497           | 251 | 81/09/08                  | 1727:05                  | 1728:00                 | 123             | 314                 | 9038            | 3               | 120, 10                  |       |
| 3498           | 251 | 81/09/08                  | 1743:10                  | 1743:30                 | 60              | 75                  |                 | 2               |                          |       |
| 3499           | 251 | 81/09/08                  | 1901:15                  | 1901:45                 | 60              | 80                  |                 | 2               |                          |       |
| 3500           | 251 | 81/09/08                  | 1919:10                  | 1919:35                 | 55              | 72                  |                 | 2               |                          |       |
| 3501           | 251 | 81/09/08                  | 2027:35                  | 2028:35                 | 96              | 127                 | 1007            | 2               | 120, 11                  |       |
| 3502           | 251 | 81/09/08                  | 2031:35                  | 2032:05                 | 55              | 73                  |                 | 2               |                          |       |
| 3503           | 251 | 81/09/08                  | 2322:15                  | 2322:55                 | 95              | 377                 | 6066            | 4               | 120, 12                  |       |
| 3504           | 251 | 81/09/08                  | 2331:50                  | 2332:40                 | 102             | 163                 | 2742            | 3               | 120, 12                  |       |
| 3505           | 251 | 81/09/08                  | 2337:15                  | 2338:20                 | 145             | 66                  |                 | 2               |                          |       |
| 3506           | 252 | 81/09/09                  | 0113:30                  | 0114:05                 | 218             | 1020                | 37518           | 4               | 120, 13                  | M     |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3507           | 252 | 81/09/09                  | 0146:10                  | 0146:40                 | 55              | 76                  |                 | 2               |                          |       |
| 3508           | 252 | 81/09/09                  | 0506:45                  | 0506:55                 | 45              | 98                  |                 | 2               |                          |       |
| 3509           | 252 | 81/09/09                  | 0727:05                  | 0731:15                 | 486             | 321                 | 19102           | 3               | 120, 15                  |       |
| 3510           | 252 | 81/09/09                  | 1100:15                  | 1100:25                 | 80              | 84                  |                 | 2               |                          |       |
| 3511           | 252 | 81/09/09                  | 1358:55                  | 1359:10                 | 50              | 68                  |                 | 2               |                          |       |
| 3512           | 252 | 81/09/09                  | 1551:00                  | 1551:25                 | 60              | 68                  |                 | 2               |                          |       |
| 3513           | 252 | 81/09/09                  | 2024:30                  | 2024:35                 | 10              | 100                 | 300             | 2               |                          |       |
| 3514           | 252 | 81/09/09                  | 2032:50                  | 2035:30                 | 220             | 381                 | 10676           | 3               | 120, 16                  | EW    |
| 3515           | 252 | 81/09/09                  | 2206:05                  | 2208:40                 | 973             | 400                 | 59583           | 3               | 121, 1                   | EW    |
| 3516           | 252 | 81/09/09                  | 2350:40                  | 2350:55                 | 45              | 66                  |                 | 2               |                          | EW    |
| 3517           | 252 | 81/09/09                  | 2355:30                  | 0000:20                 | 577             | 170                 | 12250           | 2               | 121, 2                   | EW    |
| 3518           | 253 | 81/09/10                  | 0300:40                  | 0302:40                 | 210             | 74                  |                 | 2               |                          | EW    |
| 3519           | 253 | 81/09/10                  | 0557:30                  | 0558:40                 | 80              | 70                  |                 | 2               |                          | EW    |
| 6540           | 253 | 81/09/10                  | 0726:37                  | 0728:25                 | 304             | 3597                | 97018           | 8               | 206, 11                  | EW    |
| 6541           | 253 | 81/09/10                  | 0758:52                  | 0759:12                 | 46              | 60                  |                 | 2               |                          | I     |
| 3520           | 253 | 81/09/10                  | 0935:35                  | 0940:45                 | 610             | 28539               | 1.42E+06        | 11              | 121, 3                   | EN    |
| 3521           | 253 | 81/09/10                  | 1054:20                  | 1055:15                 | 80              | 61                  |                 | 2               |                          |       |
| 3522           | 253 | 81/09/10                  | 1336:10                  | 1336:25                 | 30              | 93                  |                 | 2               |                          |       |
| 3523           | 253 | 81/09/10                  | 1346:10                  | 1347:40                 | 315             | 94                  | 41014           | 2               | 121, 4                   |       |
| 3524           | 253 | 81/09/10                  | 1838:40                  | 1842:55                 | 471             | 78                  | 4314            | 4               | 121, 5                   |       |
| 3525           | 254 | 81/09/11                  | 0040:10                  | 0045:55                 | 887             | 102                 | 4729            | 2               | 121, 6                   |       |
| 3526           | 254 | 81/09/11                  | 0114:55                  | 0116:00                 | 179             | 416                 | 14450           | 3               | 121, 7                   |       |
| 3527           | 254 | 81/09/11                  | 0130:00                  | 0131:45                 | 140             | 70                  |                 | 2               |                          |       |
| 3528           | 254 | 81/09/11                  | 0712:30                  | 0713:50                 | 146             | 508                 | 12353           | 4               | 121, 8                   | M     |
| 3529           | 254 | 81/09/11                  | 0734:40                  | 0734:50                 | 35              | 65                  |                 | 2               |                          |       |
| 3530           | 254 | 81/09/11                  | 0752:10                  | 0753:50                 | 297             | 819                 | 27286           | 4               | 121, 9                   |       |
| 3531           | 254 | 81/09/11                  | 1014:10                  | 1018:45                 | 535             | 543                 | 36127           | 3               | 121, 10                  | M     |
| 3532           | 254 | 81/09/11                  | 1213:30                  | 1214:55                 | 195             | 71                  |                 | 2               |                          |       |
| 3533           | 254 | 81/09/11                  | 1335:20                  | 1337:20                 | 165             | 65                  |                 | 3               |                          |       |
| 3534           | 254 | 81/09/11                  | 1411:00                  | 1414:00                 | 487             | 60                  |                 | 4               |                          | SA    |
| 3535           | 254 | 81/09/11                  | 1515:30                  | 1517:15                 | 170             | 75                  |                 | 3               |                          |       |
| 3536           | 254 | 81/09/11                  | 1647:50                  | 1649:15                 | 140             | 73                  |                 | 5               |                          |       |
| 3537           | 254 | 81/09/11                  | 2128:05                  | 2128:45                 | 100             | 64                  |                 | 2               |                          |       |
| 3538           | 254 | 81/09/11                  | 2132:05                  | 2132:50                 | 155             | 120                 | 1985            | 2               | 121, 12                  |       |
| 3539           | 254 | 81/09/11                  | 2139:25                  | 2140:10                 | 85              | 112                 | 1179            | 2               | 121, 12                  |       |
| 3540           | 254 | 81/09/11                  | 2157:55                  | 2158:00                 | 11              | 315                 | 1217            | 4               | 121, 13                  |       |
| 3541           | 254 | 81/09/11                  | 2158:45                  | 2159:05                 | 50              | 86                  |                 | 2               | 121, 13                  |       |
| 3542           | 254 | 81/09/11                  | 2310:15                  | 2311:20                 | 486             | 7554                | 4.14E+05        | 8               | 121, 14                  | M     |
| 3543           | 255 | 81/09/12                  | 0037:35                  | 0038:35                 | 136             | 113                 | 1429            | 2               | 121, 16                  |       |
| 3544           | 255 | 81/09/12                  | 0046:00                  | 0046:40                 | 166             | 452                 | 12195           | 3               | 121, 16                  |       |
| 3545           | 255 | 81/09/12                  | 0059:40                  | 0100:15                 | 55              | 65                  |                 | 2               |                          |       |
| 3546           | 255 | 81/09/12                  | 0344:15                  | 0344:40                 | 90              | 64                  |                 | 2               |                          |       |
| 3547           | 255 | 81/09/12                  | 0521:15                  | 0531:45                 | 838             | 157                 | 6890            | 3               | 122, 1                   |       |
| 3548           | 255 | 81/09/12                  | 0708:25                  | 0709:25                 | 201             | 171                 | 7644            | 2               | 122, 2                   |       |
| 3549           | 255 | 81/09/12                  | 0718:50                  | 0721:00                 | 325             | 102                 | 7339            | 2               | 122, 2                   |       |
| 3550           | 255 | 81/09/12                  | 0728:30                  | 0728:45                 | 38              | 179                 | 1102            | 2               | 122, 2                   |       |
| 3551           | 255 | 81/09/12                  | 0739:10                  | 0740:55                 | 140             | 86                  |                 | 2               |                          |       |
| 3552           | 255 | 81/09/12                  | 1005:30                  | 1005:45                 | 41              | 127                 | 468             | 2               | 122, 3                   |       |
| 3553           | 255 | 81/09/12                  | 1151:05                  | 1158:35                 | 677             | 108                 | 10304           | 2               | 122, 4                   |       |
| 3554           | 255 | 81/09/12                  | 1228:25                  | 1230:55                 | 290             | 134                 | 5038            | 2               | 122, 5                   |       |
| 3555           | 255 | 81/09/12                  | 1315:00                  | 1315:55                 | 100             | 87                  |                 | 2               |                          |       |
| 3556           | 255 | 81/09/12                  | 1525:30                  | 1525:40                 | 75              | 76                  |                 | 2               |                          |       |
| 3557           | 255 | 81/09/12                  | 1800:30                  | 1801:05                 | 90              | 60                  |                 | 2               |                          |       |
| 3558           | 255 | 81/09/12                  | 2321:50                  | 2322:15                 | 50              | 94                  |                 | 2               |                          |       |
| 3559           | 255 | 81/09/12                  | 2324:50                  | 2325:05                 | 160             | 84                  |                 | 2               |                          |       |
| 3560           | 256 | 81/09/13                  | 0047:25                  | 0048:10                 | 72              | 106                 | 3019            | 2               | 122, 6                   |       |
| 3561           | 256 | 81/09/13                  | 0959:55                  | 1001:00                 | 349             | 111                 | 2793            | 2               | 122, 7                   |       |
| 3562           | 256 | 81/09/13                  | 1039:45                  | 1040:25                 | 65              | 90                  |                 | 2               |                          |       |
| 3563           | 256 | 81/09/13                  | 1316:15                  | 1317:20                 | 175             | 68                  |                 | 4               |                          |       |
| 3564           | 256 | 81/09/13                  | 1503:15                  | 1503:20                 | 15              | 81                  |                 | 2               |                          |       |
| 3565           | 256 | 81/09/13                  | 1644:05                  | 1644:30                 | 50              | 56                  |                 | 2               |                          |       |
| 3566           | 256 | 81/09/13                  | 1943:50                  | 1944:05                 | 45              | 92                  |                 | 2               |                          |       |
| 3567           | 256 | 81/09/13                  | 1946:45                  | 1947:10                 | 155             | 117                 | 2738            | 2               | 122, 8                   |       |
| * 3568         | 257 | 81/09/14                  | 0054:30                  | 0054:55                 | 35              | 79                  |                 | 2               |                          |       |
| * 3569         | 257 | 81/09/14                  | 0715:50                  | 0716:25                 | 114             | 155                 | 2168            | 2               | 122, 9                   |       |
| * 3570         | 257 | 81/09/14                  | 1004:40                  | 1005:00                 | 50              | 66                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| * 3571         | 257 | 81/09/14                  | 1136:35                  | 1137:00                 | 50              | 74                  |                 | 2               |                          |       |
| * 3572         | 257 | 81/09/14                  | 1154:30                  | 1155:30                 | 175             | 61                  |                 | 2               |                          |       |
| * 3573         | 257 | 81/09/14                  | 1305:55                  | 1307:15                 | 247             | 120                 | 5587            | 5               | 122, 10                  |       |
| * 3574         | 257 | 81/09/14                  | 2242:35                  | 2243:30                 | 85              | 74                  |                 | 2               |                          |       |
| * 3575         | 257 | 81/09/14                  | 2244:40                  | 2245:35                 | 100             | 98                  |                 | 2               |                          |       |
| * 3576         | 257 | 81/09/14                  | 2254:20                  | 2258:05                 | 351             | 450                 | 29691           | 4               | 122, 11                  | FS    |
| * 3577         | 258 | 81/09/15                  | 0007:25                  | 0008:05                 | 170             | 87                  |                 | 2               |                          |       |
| * 3578         | 258 | 81/09/15                  | 0038:40                  | 0049:15                 | 1265            | 393                 | 26535           | 5               | 122, 12                  | EN    |
| * 3579         | 258 | 81/09/15                  | 0845:20                  | 0845:40                 | 64              | 103                 | 608             | 2               | 122, 13                  |       |
| * 3580         | 258 | 81/09/15                  | 1258:15                  | 1258:30                 | 70              | 84                  |                 | 7               |                          |       |
| * 3581         | 258 | 81/09/15                  | 1342:25                  | 1343:10                 | 95              | 90                  |                 | 2               |                          |       |
| 6623           | 258 | 81/09/15                  | 1427:23                  | 1427:32                 | 71              | 95                  |                 | 2               |                          | I     |
| * 3582         | 258 | 81/09/15                  | 1934:05                  | 1934:40                 | 135             | 70                  | 646             | 2               |                          |       |
| * 3583         | 258 | 81/09/15                  | 2101:10                  | 2102:00                 | 181             | 152                 | 4401            | 2               | 122, 14                  | M     |
| * 3584         | 258 | 81/09/15                  | 2110:15                  | 2114:40                 | 931             | 28212               | 3.10E+06        | 15              | 122, 14                  | EN,FS |
| * 3585         | 259 | 81/09/16                  | 0040:15                  | 0040:35                 | 80              | 98                  |                 | 2               |                          |       |
| * 3586         | 259 | 81/09/16                  | 0134:35                  | 0135:40                 | 185             | 90                  |                 | 2               |                          |       |
| * 3587         | 259 | 81/09/16                  | 0140:25                  | 0141:25                 | 165             | 73                  |                 | 2               |                          |       |
| * 3588         | 259 | 81/09/16                  | 0636:00                  | 0637:45                 | 190             | 77                  |                 | 2               |                          |       |
| * 3589         | 259 | 81/09/16                  | 1104:10                  | 1108:15                 | 306             | 365                 | 14734           | 10              | 122, 15                  | M     |
| * 3590         | 259 | 81/09/16                  | 1332:05                  | 1334:15                 | 237             | 244                 | 7096            | 3               | 123, 1                   |       |
| * 3591         | 259 | 81/09/16                  | 1609:50                  | 1610:10                 | 109             | 135                 | 2198            | 2               | 123, 2                   |       |
| * 3592         | 259 | 81/09/16                  | 1745:20                  | 1747:00                 | 613             | 68                  | 5080            | 2               | 123, 3                   |       |
| * 3593         | 260 | 81/09/17                  | 0128:30                  | 0129:35                 | 126             | 177                 | 2980            | 2               | 123, 4                   |       |
| * 3594         | 260 | 81/09/17                  | 0136:55                  | 0137:45                 | 170             | 101                 | 2026            | 2               |                          |       |
| * 3595         | 260 | 81/09/17                  | 0321:30                  | 0321:50                 | 95              | 67                  |                 | 2               |                          |       |
| * 3596         | 260 | 81/09/17                  | 0434:35                  | 0435:10                 | 80              | 73                  |                 | 2               |                          |       |
| * 3597         | 260 | 81/09/17                  | 0523:20                  | 0523:40                 | 46              | 155                 | 1540            | 3               | 123, 5                   |       |
| * 3598         | 260 | 81/09/17                  | 0643:10                  | 0645:55                 | 515             | 72                  | 2212            | 2               | 123, 6                   |       |
| * 3599         | 260 | 81/09/17                  | 1055:20                  | 1056:50                 | 242             | 163                 | 10714           | 6               | 123, 7                   |       |
| * 3600         | 260 | 81/09/17                  | 1236:20                  | 1238:15                 | 205             | 76                  |                 | 2               |                          |       |
| * 3601         | 260 | 81/09/17                  | 1246:50                  | 1247:05                 | 60              | 65                  |                 | 2               |                          |       |
| * 3602         | 260 | 81/09/17                  | 1417:05                  | 1417:20                 | 25              | 65                  |                 | 2               |                          |       |
| * 3603         | 260 | 81/09/17                  | 1900:50                  | 1901:00                 | 40              | 60                  |                 | 2               |                          |       |
| * 3604         | 260 | 81/09/17                  | 2355:25                  | 2355:45                 | 55              | 153                 | 1302            | 2               | 123, 8                   |       |
| * 3605         | 261 | 81/09/18                  | 0129:10                  | 0132:25                 | 490             | 1189                | 38601           | 5               | 123, 9                   |       |
| * 3606         | 261 | 81/09/18                  | 0332:45                  | 0333:25                 | 170             | 95                  |                 | 2               |                          |       |
| * 3607         | 261 | 81/09/18                  | 0444:50                  | 0445:03                 | 176             | 129                 | 3305            | 2               | 123, 10                  |       |
| * 3608         | 261 | 81/09/18                  | 1413:40                  | 1415:20                 | 246             | 137                 | 3464            | 2               | 123, 11                  |       |
| * 3609         | 261 | 81/09/18                  | 1732:25                  | 1733:10                 | 80              | 162                 | 2108            | 2               | 123, 12                  |       |
| * 3610         | 262 | 81/09/19                  | 0312:10                  | 0313:15                 | 602             | 379                 | 24595           | 5               | 123, 13                  |       |
| * 3611         | 262 | 81/09/19                  | 0412:30                  | 0413:00                 | 50              | 60                  |                 | 2               |                          |       |
| * 3612         | 262 | 81/09/19                  | 0550:10                  | 0551:05                 | 513             | 1954                | 81151           | 9               | 123, 14                  | M     |
| * 3613         | 262 | 81/09/19                  | 0602:40                  | 0603:05                 | 50              | 96                  |                 | 2               |                          | AX    |
| * 3614         | 262 | 81/09/19                  | 1033:35                  | 1037:00                 | 369             | 154                 | 14723           | 8               | 123, 16                  | AX    |
| * 3615         | 262 | 81/09/19                  | 1215:57                  | 1217:05                 | 230             | 85                  |                 | 4               |                          |       |
| * 3616         | 262 | 81/09/19                  | 1438:40                  | 1440:00                 | 243             | 105                 | 3926            | 2               | 124, 1                   | SA    |
| * 3617         | 263 | 81/09/20                  | 1025:00                  | 1027:40                 | 255             | 109                 | 7417            | 5               | 124, 2                   |       |
| * 3618         | 263 | 81/09/20                  | 1117:00                  | 1117:15                 | 30              | 75                  |                 | 2               |                          |       |
| 3619           | 264 | 81/09/21                  | 1054:05                  | 1054:55                 | 210             | 110                 | 3492            | 2               | 124, 3                   |       |
| 3620           | 265 | 81/09/22                  | 0834:35                  | 0844:20                 | 1831            | 379                 | 68298           | 7               | 124, 4                   | M     |
| 3621           | 266 | 81/09/23                  | 0556:25                  | 0557:25                 | 140             | 76                  |                 | 2               |                          |       |
| 3622           | 266 | 81/09/23                  | 0714:55                  | 0715:40                 | 181             | 336                 | 5397            | 4               | 124, 6                   |       |
| 6721           | 269 | 81/09/26                  | 1010:05                  | 1011:30                 | 227             | 324                 | 14547           | 3               | 211, 5                   | I     |
| 3623           | 271 | 81/09/28                  | 2358:20                  | 2359:10                 | 155             | 70                  |                 | 2               |                          |       |
| 3624           | 272 | 81/09/29                  | 0119:20                  | 0119:30                 | 30              | 57                  |                 | 2               |                          |       |
| 3625           | 272 | 81/09/29                  | 0121:00                  | 0121:30                 | 95              | 61                  |                 | 2               |                          |       |
| 6722           | 273 | 81/09/30                  | 0008:31                  | 0009:00                 | 87              | 65                  |                 | 2               |                          |       |
| 3626           | 273 | 81/09/30                  | 1711:40                  | 1712:35                 | 195             | 94                  |                 | 2               |                          |       |
| 3627           | 273 | 81/09/30                  | 1846:05                  | 1846:40                 | 58              | 126                 | 929             | 3               | 124, 7                   |       |
| 3628           | 273 | 81/09/30                  | 2001:20                  | 2001:40                 | 30              | 68                  |                 | 2               |                          |       |
| 3629           | 273 | 81/09/30                  | 2213:40                  | 2213:50                 | 30              | 90                  |                 | 2               |                          |       |
| 3630           | 274 | 81/10/01                  | 0410:30                  | 0411:20                 | 105             | 60                  |                 | 2               |                          |       |
| 3631           | 274 | 81/10/01                  | 1737:30                  | 1738:25                 | 75              | 97                  |                 | 2               |                          |       |
| 3632           | 274 | 81/10/01                  | 1949:55                  | 1957:40                 | 860             | 229                 | 42074           | 3               | 124, 8                   |       |
| 3633           | 274 | 81/10/01                  | 2358:35                  | 2359:05                 | 50              | 64                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 3634           | 275 | 81/10/02                  | 0728:30                  | 0729:00                 | 50              | 74                  |                 | 2               |                          |           |
| 3635           | 275 | 81/10/02                  | 1630:25                  | 1635:10                 | 521             | 405                 | 33117           | 2               | 124, 9                   | M         |
| 6724           | 275 | 81/10/02                  | 2303:33                  | 2303:43                 | 26              | 76                  |                 | 2               |                          |           |
| 3636           | 276 | 81/10/03                  | 2005:40                  | 2006:20                 | 100             | 65                  |                 | 2               |                          |           |
| 3637           | 277 | 81/10/04                  | 0057:40                  | 0057:45                 | 20              | 52                  |                 | 2               |                          |           |
| 3638           | 277 | 81/10/04                  | 0059:30                  | 0059:40                 | 60              | 52                  |                 | 2               |                          |           |
| 3639           | 277 | 81/10/04                  | 0101:10                  | 0101:45                 | 85              | 53                  |                 | 2               |                          |           |
| 3640           | 277 | 81/10/04                  | 0706:15                  | 0706:30                 | 40              | 67                  |                 | 5               |                          |           |
| 3641           | 278 | 81/10/05                  | 0151:15                  | 0152:05                 | 125             | 95                  |                 | 2               |                          |           |
| 3642           | 278 | 81/10/05                  | 0155:30                  | 0156:30                 | 100             | 73                  |                 | 2               |                          |           |
| 3643           | 278 | 81/10/05                  | 0509:00                  | 0509:00                 | 183             | 112                 | 3004            | 5               | 124, 11                  | SA        |
| 3644           | 278 | 81/10/05                  | 0551:50                  | 0552:25                 | 120             | 54                  |                 | 2               |                          |           |
| 3645           | 278 | 81/10/05                  | 2233:50                  | 2235:00                 | 150             | 67                  |                 | 2               |                          |           |
| 3646           | 279 | 81/10/06                  | 0320:25                  | 0321:30                 | 195             | 85                  |                 | 6               |                          |           |
| 3647           | 279 | 81/10/06                  | 2044:50                  | 2046:20                 | 235             | 116                 | 5977            | 4               | 124, 12                  |           |
| 3648           | 279 | 81/10/06                  | 2220:55                  | 2221:35                 | 85              | 88                  |                 | 3               |                          |           |
| 3649           | 280 | 81/10/07                  | 1233:40                  | 1234:25                 | 352             | 245                 | 13450           | 3               | 124, 13                  | M, ES     |
| 3650           | 280 | 81/10/07                  | 1329:05                  | 1329:25                 | 115             | 78                  |                 | 2               |                          |           |
| 3651           | 280 | 81/10/07                  | 1632:50                  | 1635:55                 | 350             | 346                 | 20655           | 3               | 124, 14                  | M         |
| 3652           | 280 | 81/10/07                  | 1802:00                  | 1808:40                 | 773             | 114                 | 16092           | 2               | 124, 15                  |           |
| 3653           | 280 | 81/10/07                  | 1949:40                  | 1950:00                 | 35              | 76                  |                 | 2               |                          |           |
| 3654           | 280 | 81/10/07                  | 1950:53                  | 1951:15                 | 70              | 85                  |                 | 2               |                          |           |
| 3655           | 280 | 81/10/07                  | 2030:20                  | 2036:25                 | 645             | 118                 | 33716           | 4               | 124, 16                  |           |
| 3656           | 280 | 81/10/07                  | 2113:25                  | 2113:50                 | 90              | 82                  |                 | 2               |                          |           |
| 3657           | 280 | 81/10/07                  | 2123:45                  | 2124:00                 | 35              | 59                  |                 | 2               |                          |           |
| 3658           | 280 | 81/10/07                  | 2231:00                  | 2232:00                 | 206             | 344                 | 10722           | 4               | 125, 1                   |           |
| 3659           | 280 | 81/10/07                  | 2241:35                  | 2301:35                 | 6830            | 33669               | 1.05E+07        | 15              | 198, 4                   | M, ES, DG |
| 3660           | 281 | 81/10/08                  | 0130:00                  | 0130:55                 | 376             | 90                  | 4742            | 2               | 125, 2                   |           |
| 3661           | 281 | 81/10/08                  | 0139:40                  | 0141:45                 | 190             | 64                  |                 | 2               |                          |           |
| 3662           | 281 | 81/10/08                  | 0448:05                  | 0448:15                 | 20              | 61                  |                 | 2               |                          |           |
| 3663           | 281 | 81/10/08                  | 0457:55                  | 0458:05                 | 35              | 86                  |                 | 2               |                          |           |
| 3664           | 281 | 81/10/08                  | 0636:25                  | 0636:40                 | 40              | 68                  |                 | 2               |                          |           |
| 3665           | 281 | 81/10/08                  | 0644:40                  | 0645:15                 | 90              | 72                  |                 | 2               |                          |           |
| 3666           | 281 | 81/10/08                  | 0806:40                  | 0807:00                 | 53              | 195                 | 1819            | 3               | 125, 3                   |           |
| 3667           | 281 | 81/10/08                  | 1136:35                  | 1137:20                 | 155             | 99                  |                 | 2               |                          |           |
| 3668           | 281 | 81/10/08                  | 1141:05                  | 1142:40                 | 169             | 132                 | 2979            | 2               | 125, 4                   |           |
| 3669           | 281 | 81/10/08                  | 1223:05                  | 1223:15                 | 30              | 94                  |                 | 2               |                          |           |
| 3670           | 281 | 81/10/08                  | 1304:25                  | 1304:45                 | 45              | 76                  |                 | 2               |                          |           |
| 3671           | 281 | 81/10/08                  | 2020:55                  | 2022:50                 | 290             | 140                 | 11230           | 5               | 125, 5                   | AX        |
| 3672           | 281 | 81/10/08                  | 2242:50                  | 2244:05                 | 155             | 72                  |                 | 4               |                          |           |
| 3673           | 282 | 81/10/09                  | 0006:50                  | 0007:10                 | 85              | 80                  |                 | 2               |                          |           |
| 3674           | 282 | 81/10/09                  | 0431:10                  | 0431:40                 | 90              | 85                  |                 | 2               |                          |           |
| 3675           | 282 | 81/10/09                  | 0758:40                  | 0758:50                 | 29              | 255                 | 992             | 4               | 125, 6                   | FS        |
| 3676           | 282 | 81/10/09                  | 1301:50                  | 1304:10                 | 296             | 122                 | 5604            | 2               | 125, 7                   |           |
| 3677           | 282 | 81/10/09                  | 1531:45                  | 1532:45                 | 133             | 166                 | 3195            | 3               | 125, 8                   |           |
| 3678           | 282 | 81/10/09                  | 1912:05                  | 1913:40                 | 164             | 118                 | 2944            | 2               | 125, 9                   |           |
| 3679           | 282 | 81/10/09                  | 2009:25                  | 2011:55                 | 562             | 170                 | 22719           | 6               | 125, 10                  |           |
| 3680           | 282 | 81/10/09                  | 2154:20                  | 2156:35                 | 330             | 70                  |                 | 2               | 125, 11                  |           |
| 3681           | 282 | 81/10/09                  | 2232:15                  | 2233:40                 | 215             | 75                  |                 | 5               |                          |           |
| 3682           | 283 | 81/10/10                  | 0126:55                  | 0127:25                 | 73              | 133                 | 1494            | 2               | 125, 12                  |           |
| 3683           | 283 | 81/10/10                  | 0928:20                  | 0928:40                 | 40              | 84                  |                 | 2               |                          |           |
| 3684           | 283 | 81/10/10                  | 0935:10                  | 0935:45                 | 316             | 768                 | 13433           | 4               | 125, 13                  | M         |
| 3685           | 283 | 81/10/10                  | 1247:30                  | 1248:35                 | 516             | 11434               | 3.10E+05        | 7               | 125, 15                  | M, FS     |
| 3686           | 283 | 81/10/10                  | 1422:55                  | 1424:30                 | 383             | 1180                | 31861           | 4               | 125, 16                  | M, FS     |
| 3687           | 283 | 81/10/10                  | 1517:55                  | 1518:30                 | 120             | 69                  |                 | 2               |                          |           |
| 3688           | 283 | 81/10/10                  | 1521:35                  | 1522:15                 | 65              | 81                  |                 | 2               |                          |           |
| 3689           | 283 | 81/10/10                  | 1600:40                  | 1600:55                 | 45              | 66                  |                 | 2               |                          |           |
| 3690           | 283 | 81/10/10                  | 1700:50                  | 1701:45                 | 75              | 95                  |                 | 2               |                          |           |
| 3691           | 283 | 81/10/10                  | 1704:20                  | 1704:30                 | 86              | 239                 | 2346            | 2               | 126, 1                   |           |
| 3692           | 283 | 81/10/10                  | 1721:30                  | 1721:40                 | 120             | 66                  |                 | 2               |                          |           |
| 3693           | 283 | 81/10/10                  | 1737:25                  | 1738:05                 | 100             | 61                  |                 | 2               |                          |           |
| 3694           | 283 | 81/10/10                  | 1958:45                  | 2000:55                 | 621             | 112                 | 10672           | 5               | 126, 2                   |           |
| 3695           | 283 | 81/10/10                  | 2042:40                  | 2043:55                 | 150             | 109                 | 3422            | 2               | 126, 3                   |           |
| 3696           | 283 | 81/10/10                  | 2142:50                  | 2143:40                 | 292             | 87                  | 3821            | 2               | 126, 4                   |           |
| 3697           | 283 | 81/10/10                  | 2310:40                  | 2311:50                 | 151             | 246                 | 11171           | 5               | 126, 5                   | AX        |
| 3698           | 283 | 81/10/10                  | 2341:20                  | 2341:30                 | 70              | 69                  |                 | 2               |                          |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS       |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------|
| 3699           | 283 | 81/10/10                  | 2348:30                  | 2350:35                 | 702             | 190                 | 21826           | 2               | 126, 6                   |             |
| 3700           | 284 | 81/10/11                  | 0046:15                  | 0046:50                 | 195             | 199                 | 7712            | 7               | 126, 7                   |             |
| 3701           | 284 | 81/10/11                  | 0053:40                  | 0055:50                 | 170             | 68                  |                 | 3               |                          |             |
| 3702           | 284 | 81/10/11                  | 0434:20                  | 0434:50                 | 311             | 280                 | 9766            | 2               | 126, 8                   |             |
| 3703           | 284 | 81/10/11                  | 0549:40                  | 0550:00                 | 100             | 81                  |                 | 2               |                          |             |
| 3704           | 284 | 81/10/11                  | 0731:10                  | 0731:30                 | 80              | 71                  |                 | 2               |                          |             |
| 3705           | 284 | 81/10/11                  | 0747:00                  | 0748:30                 | 220             | 185                 | 7668            | 2               | 126, 9                   |             |
| 3706           | 284 | 81/10/11                  | 1240:25                  | 1241:05                 | 60              | 66                  |                 | 2               |                          |             |
| 3707           | 284 | 81/10/11                  | 1248:00                  | 1248:25                 | 65              | 59                  |                 | 2               |                          |             |
| 3708           | 284 | 81/10/11                  | 1401:35                  | 1401:45                 | 30              | 90                  |                 | 2               |                          |             |
| 3709           | 284 | 81/10/11                  | 1511:10                  | 1511:50                 | 164             | 115                 | 2162            | 2               | 126, 10                  |             |
| 3710           | 284 | 81/10/11                  | 1552:30                  | 1552:55                 | 171             | 176                 | 3937            | 2               | 126, 11                  |             |
| 3711           | 284 | 81/10/11                  | 1813:55                  | 1814:10                 | 41              | 109                 | 827             | 2               | 126, 12                  |             |
| 3712           | 284 | 81/10/11                  | 1903:05                  | 1903:15                 | 30              | 67                  |                 | 2               |                          |             |
| 3713           | 284 | 81/10/11                  | 1910:10                  | 1910:30                 | 45              | 55                  |                 | 2               |                          |             |
| 6725           | 284 | 81/10/11                  | 1947:21                  | 1947:43                 | 61              | 66                  |                 | 3               |                          | I           |
| 3714           | 284 | 81/10/11                  | 2208:00                  | 2215:10                 | 597             | 174                 | 15038           | 11              | 126, 13                  |             |
| 3715           | 284 | 81/10/11                  | 2351:00                  | 2353:05                 | 123             | 568                 | 27189           | 14              | 126, 14                  | EN          |
| 3716           | 285 | 81/10/12                  | 0103:35                  | 0104:20                 | 180             | 102                 | 2819            | 2               |                          |             |
| 3717           | 285 | 81/10/12                  | 0227:20                  | 0229:00                 | 648             | 810                 | 66617           | 3               | 126, 15                  |             |
| 3718           | 285 | 81/10/12                  | 0253:10                  | 0253:45                 | 60              | 69                  |                 | 2               |                          |             |
| 3719           | 285 | 81/10/12                  | 0407:50                  | 0408:30                 | 176             | 206                 | 4139            | 2               | 126, 16                  |             |
| 3720           | 285 | 81/10/12                  | 0426:20                  | 0435:50                 | 1117            | 7360                | 2.10E+06        | 8               | 126, 16                  | M ,EN       |
| 3721           | 285 | 81/10/12                  | 0550:45                  | 0550:55                 | 57              | 214                 | 2270            | 3               | 127, 1                   |             |
| 3722           | 285 | 81/10/12                  | 0556:30                  | 0557:00                 | 145             | 64                  |                 | 2               |                          |             |
| 3723           | 285 | 81/10/12                  | 0614:05                  | 0619:15                 | 388             | 105                 | 7766            | 2               | 127, 2                   | EN          |
| 3724           | 285 | 81/10/12                  | 0716:35                  | 0729:45                 | 2306            | 1572                | 3.44E+05        | 5               | 127, 13                  | M ,EN,SA,FS |
| 3725           | 285 | 81/10/12                  | 0912:55                  | 0914:30                 | 140             | 70                  |                 | 2               |                          |             |
| 3726           | 285 | 81/10/12                  | 1034:30                  | 1100:00                 | 1896            | 12464               | 2.85E+06        | 5               | 127, 4                   | M ,EN,SA,FS |
| 3727           | 285 | 81/10/12                  | 1141:50                  | 1143:25                 | 110             | 67                  |                 | 2               |                          |             |
| 3728           | 285 | 81/10/12                  | 1146:45                  | 1147:00                 | 51              | 123                 | 1007            | 2               | 127, 5                   | M ,EW       |
| 3729           | 285 | 81/10/12                  | 1234:55                  | 1235:30                 | 96              | 119                 | 1669            | 2               | 127, 6                   |             |
| 3730           | 285 | 81/10/12                  | 1317:00                  | 1321:20                 | 348             | 180                 | 4664            | 2               | 127, 7                   |             |
| 3731           | 285 | 81/10/12                  | 1413:50                  | 1414:55                 | 180             | 54                  |                 | 2               |                          |             |
| 3732           | 285 | 81/10/12                  | 1704:15                  | 1704:30                 | 90              | 98                  |                 | 2               |                          |             |
| 3733           | 285 | 81/10/12                  | 1707:45                  | 1709:45                 | 240             | 652                 | 21307           | 2               | 127, 8                   | M           |
| 3734           | 285 | 81/10/12                  | 1713:40                  | 1714:30                 | 120             | 101                 | 2609            | 2               |                          |             |
| 3735           | 285 | 81/10/12                  | 1718:10                  | 1718:50                 | 85              | 90                  |                 | 2               |                          |             |
| 3736           | 285 | 81/10/12                  | 1803:10                  | 1803:20                 | 80              | 140                 | 924             | 2               | 127, 9                   | M           |
| 3737           | 285 | 81/10/12                  | 1804:55                  | 1805:40                 | 315             | 1766                | 39038           | 4               | 127, 9                   | M ,FS       |
| 3738           | 285 | 81/10/12                  | 1811:25                  | 1812:15                 | 335             | 182                 | 6992            | 2               | 127, 9                   |             |
| 3739           | 285 | 81/10/12                  | 1827:20                  | 1830:05                 | 200             | 96                  |                 | 2               |                          |             |
| 3740           | 285 | 81/10/12                  | 1836:55                  | 1837:15                 | 30              | 87                  |                 | 2               |                          |             |
| 3741           | 285 | 81/10/12                  | 1847:55                  | 1850:15                 | 209             | 106                 | 2049            | 2               | 127, 9                   |             |
| 3742           | 285 | 81/10/12                  | 1859:35                  | 1900:20                 | 65              | 55                  |                 | 2               |                          |             |
| 3743           | 285 | 81/10/12                  | 1936:25                  | 1945:30                 | 874             | 186                 | 34344           | 5               | 127, 10                  | SN          |
| 3744           | 285 | 81/10/12                  | 1955:55                  | 1956:55                 | 200             | 62                  | 8649            | 2               | 127, 10                  |             |
| 3745           | 285 | 81/10/12                  | 2003:25                  | 2003:35                 | 57              | 193                 | 1649            | 2               | 127, 10                  |             |
| 3746           | 285 | 81/10/12                  | 2006:00                  | 2006:20                 | 40              | 90                  |                 | 2               |                          |             |
| 3747           | 285 | 81/10/12                  | 2025:55                  | 2026:50                 | 217             | 357                 | 16147           | 4               | 127, 10                  |             |
| 3748           | 285 | 81/10/12                  | 2113:50                  | 2114:00                 | 30              | 74                  |                 | 2               |                          | EW          |
| 3749           | 285 | 81/10/12                  | 2115:15                  | 2120:05                 | 675             | 200                 | 39584           | 5               | 127, 11                  | EW          |
| 3750           | 285 | 81/10/12                  | 2153:05                  | 2153:45                 | 256             | 103                 | 4322            | 2               | 127, 11                  | EW          |
| 3751           | 285 | 81/10/12                  | 2159:30                  | 2203:30                 | 339             | 63                  | 1970            | 2               | 127, 11                  |             |
| 3752           | 285 | 81/10/12                  | 2210:41                  | 2212:35                 | 149             | 218                 | 3418            | 2               | 127, 11                  | EW          |
| 3753           | 285 | 81/10/12                  | 2256:45                  | 2257:40                 | 70              | 73                  |                 | 2               |                          | EW          |
| 3754           | 285 | 81/10/12                  | 2323:40                  | 2323:55                 | 45              | 56                  |                 | 2               |                          | EW          |
| 3755           | 285 | 81/10/12                  | 2342:45                  | 2344:26                 | 120             | 61                  |                 | 2               |                          | EW          |
| 3756           | 286 | 81/10/13                  | 0024:25                  | 0024:35                 | 125             | 90                  |                 | 2               |                          | EW          |
| 3757           | 286 | 81/10/13                  | 0034:55                  | 0035:15                 | 60              | 81                  |                 | 4               |                          | EW          |
| 3758           | 286 | 81/10/13                  | 0041:05                  | 0041:45                 | 95              | 208                 | 4252            | 2               | 127, 12                  | EW          |
| 3759           | 286 | 81/10/13                  | 0047:35                  | 0050:35                 | 244             | 405                 | 5306            | 4               | 127, 12                  | FS,EW       |
| 3760           | 286 | 81/10/13                  | 0103:35                  | 0103:50                 | 60              | 82                  |                 | 2               | 127, 12                  | EW          |
| 3761           | 286 | 81/10/13                  | 0108:00                  | 0109:20                 | 226             | 265                 | 7716            | 2               | 127, 12                  | EW          |
| 3762           | 286 | 81/10/13                  | 0250:10                  | 0252:15                 | 234             | 100                 | 4172            | 2               | 127, 13                  | EW          |
| 3763           | 286 | 81/10/13                  | 0404:41                  | 0407:40                 | 195             | 57                  |                 | 2               |                          |             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS        |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------------|
| 3764           | 286 | 81/10/13                  | 0412:25                  | 0412:55                 | 80              | 68                  |                 | 2               |                          |              |
| 3765           | 286 | 81/10/13                  | 0417:40                  | 0421:35                 | 622             | 215                 | 41629           | 2               | 127, 14                  |              |
| 3766           | 286 | 81/10/13                  | 0535:55                  | 0536:10                 | 35              | 85                  |                 | 2               |                          |              |
| 3767           | 286 | 81/10/13                  | 0709:30                  | 0710:50                 | 1808            | 1236                | 1.73E+05        | 7               | 127, 15                  | M            |
| 3768           | 286 | 81/10/13                  | 0853:00                  | 0853:25                 | 130             | 70                  |                 | 2               |                          |              |
| 3769           | 286 | 81/10/13                  | 1031:20                  | 1032:00                 | 105             | 67                  |                 | 2               |                          |              |
| 3770           | 286 | 81/10/13                  | 1034:00                  | 1034:15                 | 30              | 80                  |                 | 2               |                          |              |
| 3771           | 286 | 81/10/13                  | 1034:40                  | 1035:30                 | 145             | 60                  |                 | 2               |                          |              |
| 3772           | 286 | 81/10/13                  | 1221:30                  | 1222:20                 | 180             | 74                  |                 | 2               |                          |              |
| 3773           | 286 | 81/10/13                  | 1359:55                  | 1400:30                 | 70              | 388                 | 4603            | 4               | 127, 16                  | EW<br>M      |
| 3774           | 286 | 81/10/13                  | 1628:10                  | 1629:40                 | 150             | 73                  |                 | 2               |                          |              |
| 3775           | 286 | 81/10/13                  | 1807:35                  | 1810:00                 | 1539            | 2394                | 1.61E+05        | 7               | 128, 1                   | M            |
| 3776           | 286 | 81/10/13                  | 1949:30                  | 1953:20                 | 636             | 108                 | 9516            | 2               | 128, 2                   |              |
| 3777           | 286 | 81/10/13                  | 2015:00                  | 2015:15                 | 39              | 106                 | 698             | 2               | 128, 2                   |              |
| 3778           | 286 | 81/10/13                  | 2106:10                  | 2109:30                 | 468             | 220                 | 41715           | 5               | 128, 3                   | AX           |
| 3779           | 286 | 81/10/13                  | 2114:00                  | 2115:15                 | 103             | 153                 | 1839            | 2               | 128, 3                   |              |
| 3780           | 286 | 81/10/13                  | 2124:00                  | 2126:05                 | 266             | 216                 | 8912            | 2               | 128, 3                   |              |
| 3781           | 286 | 81/10/13                  | 2157:40                  | 2159:20                 | 170             | 99                  |                 | 2               |                          |              |
| 6835           | 286 | 81/10/13                  | 2239:10                  | 2248:18                 | 1467            | 642                 | 59600           | 4               | 214, 2                   | AX,EW<br>M,I |
| 6836           | 286 | 81/10/13                  | 2305:52                  | 2307:20                 | 181             | 651                 | 24248           | 4               | 214, 2                   | I            |
| 6837           | 286 | 81/10/13                  | 2310:19                  | 2311:32                 | 245             | 106                 | 6571            | 2               | 214, 2                   | I            |
| 6838           | 286 | 81/10/13                  | 2325:31                  | 2326:14                 | 80              | 66                  |                 | 2               |                          | I            |
| 3782           | 287 | 81/10/14                  | 0101:55                  | 0102:10                 | 70              | 71                  |                 | 2               |                          |              |
| 3805           | 287 | 81/10/14                  | 0207:25                  | 0209:00                 | 130             | 57                  |                 | 2               |                          |              |
| 3783           | 287 | 81/10/14                  | 0350:10                  | 0351:30                 | 344             | 382                 | 16695           | 5               | 128, 4                   | M,FS         |
| 3784           | 287 | 81/10/14                  | 0404:35                  | 0405:35                 | 116             | 121                 | 1825            | 2               | 128, 4                   |              |
| 3785           | 287 | 81/10/14                  | 0534:15                  | 0535:00                 | 91              | 110                 | 2065            | 2               | 128, 6                   |              |
| 3786           | 287 | 81/10/14                  | 0551:55                  | 0552:00                 | 42              | 204                 | 2460            | 4               | 128, 7                   | FS           |
| 3787           | 287 | 81/10/14                  | 0725:40                  | 0726:55                 | 190             | 95                  |                 | 2               |                          |              |
| 3788           | 287 | 81/10/14                  | 1040:45                  | 1041:30                 | 105             | 60                  |                 | 2               |                          |              |
| 6727           | 287 | 81/10/14                  | 1155:42                  | 1155:50                 | 19              | 89                  |                 | 2               |                          |              |
| 6728           | 287 | 81/10/14                  | 1202:05                  | 1202:20                 | 39              | 124                 | 833             | 2               | 211, 7                   | I            |
| 3789           | 287 | 81/10/14                  | 1304:10                  | 1304:25                 | 76              | 167                 | 2883            | 2               | 128, 8                   | M            |
| 3790           | 287 | 81/10/14                  | 1326:35                  | 1327:05                 | 145             | 67                  |                 | 2               |                          |              |
| 3791           | 287 | 81/10/14                  | 1442:30                  | 1442:55                 | 315             | 616                 | 35103           | 5               | 128, 9                   | M,FS         |
| 3792           | 287 | 81/10/14                  | 1504:50                  | 1505:50                 | 70              | 73                  |                 | 2               |                          |              |
| 3793           | 287 | 81/10/14                  | 1642:30                  | 1644:20                 | 320             | 880                 | 14530           | 5               | 128, 11                  | M            |
| 3794           | 287 | 81/10/14                  | 1703:20                  | 1706:30                 | 232             | 44179               | 3.34E+06        | 15              | 128, 11                  | EN           |
| 3795           | 287 | 81/10/14                  | 1743:05                  | 1745:15                 | 200             | 70                  |                 | 2               |                          |              |
| 3796           | 287 | 81/10/14                  | 1753:00                  | 1753:30                 | 70              | 72                  |                 | 2               |                          |              |
| 3797           | 287 | 81/10/14                  | 1806:35                  | 1806:50                 | 149             | 557                 | 10046           | 5               | 128, 12                  |              |
| 3798           | 287 | 81/10/14                  | 1918:20                  | 1923:15                 | 518             | 431                 | 15344           | 3               | 128, 13                  |              |
| 3799           | 287 | 81/10/14                  | 1955:30                  | 1957:35                 | 240             | 62                  | 1837            | 2               | 128, 14                  |              |
| 3800           | 287 | 81/10/14                  | 2053:10                  | 2053:50                 | 728             | 1669                | 41153           | 6               | 128, 15                  | FS           |
| 3801           | 287 | 81/10/14                  | 2134:35                  | 2137:20                 | 611             | 92                  | 7250            | 4               | 128, 15                  |              |
| 3802           | 287 | 81/10/14                  | 2228:40                  | 2229:20                 | 50              | 73                  |                 | 2               |                          |              |
| 3803           | 287 | 81/10/14                  | 2300:00                  | 2302:00                 | 180             | 69                  |                 | 2               |                          |              |
| 3804           | 287 | 81/10/14                  | 2305:30                  | 2306:35                 | 115             | 60                  |                 | 2               |                          |              |
| 3806           | 288 | 81/10/15                  | 0354:55                  | 0355:40                 | 94              | 314                 | 3635            | 4               | 128, 16                  |              |
| 3807           | 288 | 81/10/15                  | 0540:25                  | 0541:15                 | 65              | 86                  |                 | 2               |                          |              |
| 3808           | 288 | 81/10/15                  | 0706:10                  | 0706:55                 | 66              | 168                 | 884             | 2               | 129, 1                   |              |
| 3809           | 288 | 81/10/15                  | 0715:05                  | 0716:15                 | 125             | 69                  |                 | 2               |                          |              |
| 3810           | 288 | 81/10/15                  | 0722:50                  | 0723:05                 | 40              | 86                  |                 | 2               |                          |              |
| 3811           | 288 | 81/10/15                  | 1010:10                  | 1010:35                 | 45              | 70                  |                 | 2               |                          |              |
| 3812           | 288 | 81/10/15                  | 1113:40                  | 1114:00                 | 50              | 95                  |                 | 2               |                          |              |
| 3813           | 288 | 81/10/15                  | 1148:20                  | 1149:00                 | 65              | 77                  |                 | 2               |                          |              |
| 3814           | 288 | 81/10/15                  | 1202:30                  | 1203:10                 | 242             | 235                 | 14435           | 2               | 129, 2                   |              |
| 3815           | 288 | 81/10/15                  | 1247:55                  | 1248:05                 | 20              | 62                  |                 | 2               |                          |              |
| 3816           | 288 | 81/10/15                  | 1255:05                  | 1255:40                 | 60              | 129                 | 1431            | 2               | 129, 3                   |              |
| 3817           | 288 | 81/10/15                  | 1335:50                  | 1336:30                 | 45              | 63                  |                 | 2               |                          |              |
| 3818           | 288 | 81/10/15                  | 1557:40                  | 1557:40                 | 174             | 238                 | 1998            | 3               | 129, 4                   | SN           |
| 3819           | 288 | 81/10/15                  | 1604:20                  | 1605:05                 | 76              | 114                 | 2019            | 2               | 129, 5                   |              |
| 3820           | 288 | 81/10/15                  | 1626:50                  | 1627:00                 | 31              | 142                 | 710             | 2               | 129, 6                   |              |
| 3821           | 288 | 81/10/15                  | 1633:25                  | 1633:50                 | 65              | 98                  |                 | 2               |                          |              |
| 3822           | 288 | 81/10/15                  | 2043:05                  | 2049:10                 | 547             | 202                 | 26519           | 6               | 129, 7                   |              |
| 3823           | 288 | 81/10/15                  | 2125:35                  | 2127:20                 | 197             | 73                  |                 | 4               |                          |              |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|-------------------------|---------|
| 3824           | 288 | 81/10/15                  | 2132:15                  | 2132:40                 | 64              | 142                 | 1334            | 2               | 129, 8                  |         |
| 3825           | 288 | 81/10/15                  | 2141:25                  | 2142:15                 | 82              | 165                 | 1205            | 2               | 129, 8                  |         |
| 3826           | 288 | 81/10/15                  | 2230:50                  | 2231:10                 | 165             | 453                 | 10899           | 4               | 129, 9                  | M,FS    |
| 3827           | 288 | 81/10/15                  | 2302:25                  | 2303:10                 | 208             | 2799                | 69158           | 5               | 129, 11                 |         |
| 3828           | 289 | 81/10/16                  | 0020:40                  | 0021:10                 | 125             | 105                 | 2239            | 2               | 129, 12                 |         |
| 3829           | 289 | 81/10/16                  | 0144:50                  | 0145:25                 | 65              | 100                 | 4485            | 5               |                         |         |
| 3830           | 289 | 81/10/16                  | 0217:35                  | 0218:40                 | 185             | 79                  |                 | 2               |                         |         |
| 3831           | 289 | 81/10/16                  | 0223:20                  | 0223:30                 | 20              | 65                  |                 | 2               |                         |         |
| 3832           | 289 | 81/10/16                  | 0227:35                  | 0229:00                 | 100             | 74                  |                 | 2               |                         |         |
| 3833           | 289 | 81/10/16                  | 0314:00                  | 0315:40                 | 319             | 207                 | 13554           | 2               | 129, 13                 | SN      |
| 3834           | 289 | 81/10/16                  | 0324:40                  | 0324:55                 | 35              | 72                  |                 | 2               |                         |         |
| 3835           | 289 | 81/10/16                  | 0333:30                  | 0333:55                 | 45              | 72                  |                 | 2               |                         |         |
| 3836           | 289 | 81/10/16                  | 0349:45                  | 0350:50                 | 200             | 1096                | 32935           | 5               | 129, 14                 | M       |
| 3837           | 289 | 81/10/16                  | 0353:10                  | 0353:25                 | 108             | 253                 | 6828            | 5               | 129, 14                 | M       |
| 3838           | 289 | 81/10/16                  | 0401:55                  | 0402:30                 | 91              | 519                 | 6102            | 5               | 129, 14                 |         |
| 3839           | 289 | 81/10/16                  | 0527:35                  | 0528:35                 | 110             | 228                 | 3949            | 4               | 129, 15                 |         |
| 3840           | 289 | 81/10/16                  | 0633:50                  | 0636:05                 | 678             | 1008                | 83065           | 4               | 129, 16                 | M       |
| 3841           | 289 | 81/10/16                  | 0648:00                  | 0649:45                 | 173             | 103                 | 3404            | 2               | 129, 16                 |         |
| 3842           | 289 | 81/10/16                  | 0655:05                  | 0655:35                 | 57              | 145                 | 971             | 2               | 129, 16                 |         |
| 3843           | 289 | 81/10/16                  | 0811:30                  | 0811:45                 | 56              | 129                 | 730             | 2               | 130, 1                  |         |
| 3844           | 289 | 81/10/16                  | 0827:35                  | 0829:35                 | 449             | 162                 | 15475           | 2               | 130, 1                  |         |
| 3845           | 289 | 81/10/16                  | 0842:05                  | 0843:40                 | 128             | 227                 | 3168            | 4               | 130, 1                  | M       |
| 3846           | 289 | 81/10/16                  | 0845:25                  | 0845:40                 | 115             | 72                  |                 | 2               |                         |         |
| 3847           | 289 | 81/10/16                  | 1001:55                  | 1002:20                 | 49              | 150                 | 783             | 2               | 130, 2                  |         |
| 3848           | 289 | 81/10/16                  | 1021:15                  | 1023:20                 | 150             | 81                  |                 | 2               |                         |         |
| 3849           | 289 | 81/10/16                  | 1150:25                  | 1152:50                 | 459             | 182                 | 64472           | 2               | 130, 3                  |         |
| 3850           | 289 | 81/10/16                  | 1236:20                  | 1246:00                 | 579             | 195                 | 9389            | 3               | 130, 4                  | M,ES    |
| 3851           | 289 | 81/10/16                  | 1732:55                  | 1733:10                 | 175             | 84                  |                 | 2               |                         |         |
| 3852           | 289 | 81/10/16                  | 1746:55                  | 1748:35                 | 185             | 56                  |                 | 2               |                         |         |
| 3853           | 289 | 81/10/16                  | 2032:55                  | 2037:25                 | 383             | 156                 | 5708            | 6               | 130, 5                  |         |
| 3854           | 289 | 81/10/16                  | 2048:10                  | 2051:45                 | 383             | 103                 | 6439            | 2               | 130, 5                  |         |
| 3855           | 289 | 81/10/16                  | 2110:10                  | 2110:40                 | 45              | 64                  |                 | 2               |                         |         |
| 3856           | 289 | 81/10/16                  | 2211:15                  | 2211:45                 | 60              | 62                  |                 | 2               |                         |         |
| 3857           | 289 | 81/10/16                  | 2216:00                  | 2216:30                 | 85              | 61                  |                 | 2               |                         |         |
| 3858           | 289 | 81/10/16                  | 2226:20                  | 2232:40                 | 615             | 96                  | 9328            | 2               | 130, 6                  |         |
| 3859           | 289 | 81/10/16                  | 2353:00                  | 2353:20                 | 42              | 310                 | 1879            | 2               | 130, 7                  |         |
| 3860           | 289 | 81/10/16                  | 2354:30                  | 2355:50                 | 176             | 209                 | 6924            | 2               | 130, 7                  |         |
| 3861           | 290 | 81/10/17                  | 0150:20                  | 0150:45                 | 73              | 223                 | 2895            | 3               | 130, 8                  |         |
| 3862           | 290 | 81/10/17                  | 0313:50                  | 0314:05                 | 64              | 1056                | 7133            | 4               | 130, 9                  | M,FS    |
| 3863           | 290 | 81/10/17                  | 0333:35                  | 0334:15                 | 104             | 118                 | 5007            | 2               |                         |         |
| 3864           | 290 | 81/10/17                  | 0501:50                  | 0502:20                 | 120             | 100                 | 1542            | 2               |                         |         |
| 3865           | 290 | 81/10/17                  | 0517:05                  | 0517:30                 | 85              | 77                  |                 | 2               |                         |         |
| 3866           | 290 | 81/10/17                  | 0518:45                  | 0520:05                 | 145             | 66                  |                 | 2               |                         |         |
| 3867           | 290 | 81/10/17                  | 0955:55                  | 0956:20                 | 89              | 218                 | 3142            | 2               | 130, 11                 |         |
| 3868           | 290 | 81/10/17                  | 1127:40                  | 1128:45                 | 175             | 83                  |                 | 2               |                         |         |
| 3869           | 290 | 81/10/17                  | 1140:55                  | 1141:40                 | 150             | 81                  |                 | 2               |                         |         |
| 3870           | 290 | 81/10/17                  | 1443:20                  | 1445:20                 | 268             | 75                  |                 | 2               | 130, 12                 |         |
| 3871           | 290 | 81/10/17                  | 1538:35                  | 1539:00                 | 30              | 314                 | 2720            | 4               | 130, 13                 |         |
| 3872           | 290 | 81/10/17                  | 1542:40                  | 1543:20                 | 95              | 84                  |                 | 2               |                         |         |
| 3873           | 290 | 81/10/17                  | 1613:50                  | 1614:45                 | 250             | 191                 | 9385            | 2               | 130, 14                 |         |
| 3874           | 290 | 81/10/17                  | 1624:25                  | 1625:05                 | 85              | 74                  |                 | 2               |                         |         |
| 3875           | 290 | 81/10/17                  | 1744:50                  | 1748:20                 | 572             | 147                 | 18829           | 2               | 130, 15                 |         |
| 3876           | 290 | 81/10/17                  | 1926:45                  | 1927:50                 | 125             | 91                  |                 | 2               |                         |         |
| 3877           | 290 | 81/10/17                  | 2024:10                  | 2024:45                 | 95              | 70                  |                 | 2               |                         |         |
| 3878           | 290 | 81/10/17                  | 2333:30                  | 2334:25                 | 115             | 62                  |                 | 2               |                         |         |
| 3879           | 290 | 81/10/17                  | 2355:55                  | 2356:25                 | 137             | 104                 | 2119            | 2               | 131, 1                  |         |
| 3880           | 291 | 81/10/18                  | 0009:55                  | 0010:10                 | 82              | 539                 | 5339            | 3               | 131, 2                  |         |
| 3881           | 291 | 81/10/18                  | 0022:00                  | 0023:10                 | 140             | 78                  |                 | 2               |                         |         |
| 3882           | 291 | 81/10/18                  | 0205:35                  | 0206:20                 | 137             | 209                 | 2861            | 2               | 131, 3                  |         |
| 3883           | 291 | 81/10/18                  | 0208:55                  | 0209:10                 | 40              | 60                  |                 | 2               |                         |         |
| 3884           | 291 | 81/10/18                  | 0436:30                  | 0437:05                 | 75              | 73                  |                 | 2               |                         | EW      |
| 3885           | 291 | 81/10/18                  | 0451:35                  | 0451:55                 | 65              | 60                  |                 | 2               |                         | EW      |
| 3886           | 291 | 81/10/18                  | 0641:45                  | 0642:10                 | 45              | 77                  |                 | 2               |                         | EW      |
| 3887           | 291 | 81/10/18                  | 1103:15                  | 1122:55                 | 2382            | 2021                | 9.82E+05        | 11              | 131, 4                  | M,EN,SA |
| 3889           | 291 | 81/10/18                  | 1221:10                  | 1222:20                 | 85              | 98                  |                 | 2               |                         |         |
| 3890           | 291 | 81/10/18                  | 1601:35                  | 1604:05                 | 321             | 360                 | 11525           | 3               | 131, 5                  |         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3891           | 291 | 81/10/18                  | 1722:10                  | 1722:45                 | 40              | 65                  |                 | 2               |                          |       |
| 3892           | 291 | 81/10/18                  | 1727:55                  | 1729:20                 | 248             | 180                 | 4886            | 2               | 131, 6                   |       |
| 3893           | 291 | 81/10/18                  | 2011:10                  | 2014:40                 | 375             | 92                  | 10851           | 4               | 131, 6                   |       |
| 3894           | 291 | 81/10/18                  | 2100:10                  | 2100:42                 | 100             | 62                  |                 | 2               |                          |       |
| 3895           | 291 | 81/10/18                  | 2155:55                  | 2155:57                 | 18              | 70                  |                 | 2               |                          |       |
| 3896           | 292 | 81/10/19                  | 0101:00                  | 0101:40                 | 85              | 95                  |                 | 2               |                          |       |
| 3897           | 292 | 81/10/19                  | 0154:30                  | 0154:50                 | 140             | 97                  |                 | 2               |                          |       |
| 3898           | 292 | 81/10/19                  | 0308:20                  | 0313:00                 | 1282            | 318                 | 74639           | 4               | 131, 8                   |       |
| 3899           | 292 | 81/10/19                  | 0941:05                  | 0941:20                 | 40              | 199                 | 1363            | 5               | 131, 9                   |       |
| 3900           | 292 | 81/10/19                  | 0942:35                  | 0943:25                 | 95              | 66                  |                 | 2               |                          |       |
| 3901           | 292 | 81/10/19                  | 1207:35                  | 1208:35                 | 180             | 66                  |                 | 2               |                          |       |
| 3902           | 292 | 81/10/19                  | 1224:45                  | 1225:40                 | 180             | 79                  |                 | 2               |                          |       |
| 3903           | 292 | 81/10/19                  | 1241:25                  | 1242:40                 | 182             | 113                 | 1243            | 2               | 131, 10                  |       |
| 3904           | 292 | 81/10/19                  | 1245:50                  | 1246:02                 | 30              | 61                  |                 | 2               |                          |       |
| 3905           | 292 | 81/10/19                  | 1556:25                  | 1557:15                 | 180             | 97                  |                 | 2               |                          |       |
| 3906           | 292 | 81/10/19                  | 1600:35                  | 1600:50                 | 55              | 112                 | 1010            | 2               | 131, 11                  |       |
| 3907           | 292 | 81/10/19                  | 1852:10                  | 1852:25                 | 60              | 74                  |                 | 2               |                          |       |
| 3908           | 292 | 81/10/19                  | 1918:00                  | 1918:55                 | 134             | 306                 | 5864            | 4               | 131, 12                  |       |
| 3909           | 292 | 81/10/19                  | 2018:55                  | 2019:10                 | 30              | 56                  |                 | 2               |                          |       |
| 3910           | 292 | 81/10/19                  | 2034:35                  | 2036:20                 | 178             | 150                 | 7997            | 2               | 131, 13                  |       |
| 3911           | 292 | 81/10/19                  | 2324:20                  | 2326:40                 | 185             | 79                  |                 | 2               |                          |       |
| 3912           | 293 | 81/10/20                  | 0122:15                  | 0123:25                 | 152             | 516                 | 8613            | 5               | 131, 14                  | FS    |
| 3913           | 293 | 81/10/20                  | 0148:35                  | 0149:45                 | 105             | 55                  |                 | 2               |                          |       |
| 3914           | 293 | 81/10/20                  | 0307:20                  | 0307:40                 | 98              | 190                 | 2559            | 2               | 131, 15                  |       |
| 3915           | 293 | 81/10/20                  | 0315:45                  | 0317:05                 | 536             | 109                 | 14290           | 2               | 131, 15                  |       |
| 3916           | 293 | 81/10/20                  | 0438:00                  | 0438:25                 | 80              | 75                  |                 | 2               |                          |       |
| 3917           | 293 | 81/10/20                  | 0553:05                  | 0553:45                 | 102             | 378                 | 5776            | 4               | 131, 16                  | M     |
| 3918           | 293 | 81/10/20                  | 0732:10                  | 0734:30                 | 172             | 233                 | 2284            | 4               | 132, 1                   | FS    |
| 3919           | 293 | 81/10/20                  | 0740:15                  | 0740:40                 | 45              | 75                  |                 | 2               |                          |       |
| 3920           | 293 | 81/10/20                  | 0742:00                  | 0742:10                 | 55              | 92                  |                 | 2               |                          |       |
| 3921           | 293 | 81/10/20                  | 0944:25                  | 0944:50                 | 48              | 129                 | 1238            | 4               | 132, 2                   |       |
| 3922           | 293 | 81/10/20                  | 1203:50                  | 1204:25                 | 65              | 65                  |                 | 2               |                          |       |
| 3923           | 293 | 81/10/20                  | 1242:05                  | 1242:35                 | 135             | 146                 | 3343            | 2               | 132, 3                   |       |
| 3924           | 293 | 81/10/20                  | 1349:10                  | 1350:10                 | 126             | 147                 | 1573            | 4               | 132, 4                   |       |
| 3925           | 293 | 81/10/20                  | 1419:25                  | 1421:25                 | 832             | 147                 | 31104           | 2               | 132, 5                   |       |
| 3926           | 293 | 81/10/20                  | 1508:15                  | 1510:30                 | 470             | 90                  | 5277            | 2               | 132, 6                   |       |
| 3927           | 293 | 81/10/20                  | 1951:25                  | 1951:30                 | 126             | 230                 | 9603            | 6               | 132, 7                   | SN,AX |
| 3928           | 293 | 81/10/20                  | 2025:05                  | 2034:00                 | 945             | 123                 | 31067           | 5               | 132, 8                   | M     |
| 3929           | 293 | 81/10/20                  | 2130:50                  | 2131:30                 | 65              | 89                  |                 | 2               |                          |       |
| 3930           | 293 | 81/10/20                  | 2204:40                  | 2217:55                 | 945             | 108                 | 16686           | 8               | 132, 9                   | AX    |
| 3931           | 293 | 81/10/20                  | 2303:50                  | 2304:25                 | 75              | 55                  |                 | 2               |                          |       |
| 3932           | 293 | 81/10/20                  | 2313:00                  | 2314:25                 | 170             | 56                  |                 | 2               |                          |       |
| 3933           | 293 | 81/10/20                  | 2319:35                  | 2321:05                 | 179             | 173                 | 7076            | 2               | 132, 10                  |       |
| 3934           | 293 | 81/10/20                  | 2326:05                  | 2326:30                 | 95              | 73                  |                 | 2               |                          |       |
| 3935           | 294 | 81/10/21                  | 0045:35                  | 0046:20                 | 90              | 92                  |                 | 2               |                          |       |
| 3936           | 294 | 81/10/21                  | 0425:55                  | 0427:15                 | 150             | 70                  |                 | 2               |                          |       |
| 3937           | 294 | 81/10/21                  | 0437:15                  | 0437:50                 | 170             | 64                  |                 | 2               |                          |       |
| 3938           | 294 | 81/10/21                  | 0613:05                  | 0618:10                 | 809             | 248                 | 38860           | 2               | 132, 11                  | EN    |
| 3939           | 294 | 81/10/21                  | 0739:05                  | 0739:40                 | 1018            | 531                 | 20225           | 5               | 132, 12                  | FS    |
| 3940           | 294 | 81/10/21                  | 0800:10                  | 0800:45                 | 75              | 70                  |                 | 2               |                          |       |
| 6832           | 294 | 81/10/21                  | 0925:22                  | 0925:49                 | 42              | 124                 | 3534            | 2               | 214, 1                   | I     |
| 6833           | 294 | 81/10/21                  | 0926:45                  | 0927:23                 | 59              | 64                  |                 | 2               | 214, 1                   | I     |
| 3941           | 294 | 81/10/21                  | 1320:40                  | 1334:55                 | 1141            | 83                  | 3657            | 2               | 132, 13                  |       |
| 3942           | 294 | 81/10/21                  | 1721:00                  | 1723:20                 | 367             | 866                 | 33624           | 5               | 132, 14                  |       |
| 6834           | 294 | 81/10/21                  | 1852:11                  | 1852:46                 | 159             | 67                  |                 | 2               |                          | I     |
| 3943           | 294 | 81/10/21                  | 2305:25                  | 2307:10                 | 342             | 4748                | 2.61E+05        | 8               | 132, 15                  | M,FS  |
| 3944           | 294 | 81/10/21                  | 2312:25                  | 2316:40                 | 420             | 82                  | 6074            | 2               | 132, 15                  |       |
| 3945           | 295 | 81/10/22                  | 0049:25                  | 0051:25                 | 145             | 82                  |                 | 2               |                          |       |
| 3946           | 295 | 81/10/22                  | 0109:10                  | 0109:55                 | 85              | 78                  |                 | 2               |                          |       |
| 3947           | 295 | 81/10/22                  | 0530:45                  | 0531:00                 | 45              | 94                  |                 | 2               |                          |       |
| 3948           | 295 | 81/10/22                  | 1217:05                  | 1217:45                 | 88              | 109                 | 2045            | 2               | 133, 1                   |       |
| 3949           | 295 | 81/10/22                  | 1222:10                  | 1222:30                 | 155             | 96                  |                 | 2               |                          |       |
| 3950           | 295 | 81/10/22                  | 1452:10                  | 1453:45                 | 199             | 762                 | 20180           | 4               | 133, 2                   | M     |
| 3951           | 295 | 81/10/22                  | 1501:45                  | 1502:50                 | 160             | 66                  |                 | 2               |                          |       |
| 3952           | 295 | 81/10/22                  | 2004:45                  | 2005:50                 | 170             | 63                  |                 | 3               |                          |       |
| 3953           | 295 | 81/10/22                  | 2027:00                  | 2027:20                 | 42              | 129                 | 3253            | 2               | 133, 4                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 3954           | 295 | 81/10/22                  | 2146:05                  | 2148:40                 | 190             | 65                  |                 | 4               |                          |       |
| 3955           | 295 | 81/10/22                  | 2254:50                  | 2255:20                 | 60              | 82                  |                 | 2               |                          |       |
| 3956           | 296 | 81/10/23                  | 0026:00                  | 0029:55                 | 335             | 223                 | 7959            | 2               | 133, 5                   | FS    |
| 3957           | 296 | 81/10/23                  | 0103:50                  | 0104:30                 | 70              | 88                  |                 | 2               |                          |       |
| 3958           | 296 | 81/10/23                  | 0238:35                  | 0239:50                 | 207             | 202                 | 11060           | 2               | 133, 6                   |       |
| 3959           | 296 | 81/10/23                  | 1757:05                  | 1759:35                 | 298             | 126                 | 4145            | 3               | 133, 7                   |       |
| 3960           | 296 | 81/10/23                  | 2259:25                  | 2300:00                 | 60              | 60                  |                 | 2               |                          |       |
| 3961           | 297 | 81/10/24                  | 0547:50                  | 0548:20                 | 60              | 71                  |                 | 2               |                          |       |
| 3962           | 297 | 81/10/24                  | 1440:05                  | 1440:15                 | 40              | 67                  |                 | 2               |                          |       |
| 3963           | 297 | 81/10/24                  | 1517:40                  | 1518:10                 | 103             | 378                 | 6918            | 4               | 133, 8                   |       |
| 3964           | 297 | 81/10/24                  | 1824:55                  | 1825:20                 | 45              | 83                  |                 | 2               |                          |       |
| 3965           | 297 | 81/10/24                  | 2318:10                  | 2318:25                 | 38              | 117                 | 939             | 2               | 133, 9                   |       |
| 3966           | 298 | 81/10/25                  | 0048:35                  | 0049:05                 | 85              | 81                  |                 | 2               |                          |       |
| 3967           | 298 | 81/10/25                  | 0135:10                  | 0135:30                 | 50              | 90                  |                 | 2               |                          |       |
| 3968           | 298 | 81/10/25                  | 0315:15                  | 0315:55                 | 50              | 84                  |                 | 2               |                          |       |
| 3969           | 298 | 81/10/25                  | 1448:25                  | 1449:30                 | 150             | 327                 | 12543           | 2               | 133, 10                  |       |
| 3970           | 298 | 81/10/25                  | 1804:05                  | 1804:20                 | 45              | 72                  |                 | 2               |                          |       |
| 3971           | 300 | 81/10/27                  | 0945:40                  | 0947:35                 | 244             | 111                 | 4621            | 2               | 133, 11                  |       |
| 3972           | 301 | 81/10/28                  | 0648:35                  | 0649:00                 | 60              | 65                  |                 | 2               |                          |       |
| 3973           | 301 | 81/10/28                  | 0954:30                  | 0955:05                 | 80              | 81                  |                 | 2               |                          |       |
| 3974           | 301 | 81/10/28                  | 2051:15                  | 2052:35                 | 155             | 262                 | 7567            | 2               | 133, 12                  | ES    |
| 3975           | 301 | 81/10/28                  | 2338:50                  | 2339:20                 | 75              | 78                  |                 | 2               |                          |       |
| 3976           | 302 | 81/10/29                  | 1126:15                  | 1126:35                 | 60              | 71                  |                 | 2               |                          |       |
| 3977           | 302 | 81/10/29                  | 1705:50                  | 1706:05                 | 55              | 97                  |                 | 2               |                          |       |
| 3978           | 302 | 81/10/29                  | 2004:30                  | 2006:10                 | 156             | 242                 | 2526            | 2               | 133, 13                  |       |
| 6839           | 302 | 81/10/29                  | 2355:02                  | 2355:44                 | 57              | 98                  |                 | 2               |                          | I     |
| 6840           | 303 | 81/10/30                  | 0551:45                  | 0551:59                 | 37              | 102                 | 1052            | 2               |                          | I     |
| 6841           | 303 | 81/10/30                  | 1227:07                  | 1228:45                 | 185             | 264                 | 26081           | 4               | 214, 4                   | I ,ND |
| 3979           | 304 | 81/10/31                  | 0540:10                  | 0541:40                 | 170             | 70                  |                 | 2               |                          |       |
| 3980           | 304 | 81/10/31                  | 0717:50                  | 0718:10                 | 50              | 66                  |                 | 2               |                          |       |
| 6842           | 304 | 81/10/31                  | 1154:38                  | 1155:29                 | 152             | 75                  |                 | 2               |                          | I     |
| 6843           | 304 | 81/10/31                  | 1240:26                  | 1240:57                 | 41              | 66                  |                 | 2               |                          | I     |
| 3981           | 304 | 81/10/31                  | 1818:05                  | 1818:25                 | 46              | 177                 | 1348            | 3               | 133, 14                  |       |
| 3982           | 304 | 81/10/31                  | 1838:25                  | 1838:40                 | 30              | 97                  |                 | 2               |                          |       |
| 6844           | 304 | 81/10/31                  | 1943:51                  | 1944:52                 | 87              | 63                  |                 | 2               |                          | I     |
| 6845           | 304 | 81/10/31                  | 2140:12                  | 2140:17                 | 24              | 84                  |                 | 2               |                          | I     |
| 3983           | 305 | 81/11/01                  | 0610:15                  | 0611:15                 | 118             | 152                 | 4912            | 2               | 133, 15                  |       |
| 6846           | 305 | 81/11/01                  | 0832:00                  | 0835:44                 | 511             | 67                  | 2925            | 2               | 214, 5                   | I     |
| 3984           | 305 | 81/11/01                  | 0916:35                  | 0917:35                 | 130             | 64                  |                 | 2               |                          |       |
| 3985           | 305 | 81/11/01                  | 1449:00                  | 1451:40                 | 195             | 81                  |                 | 2               |                          |       |
| 3986           | 305 | 81/11/01                  | 1629:15                  | 1631:45                 | 570             | 92                  | 5463            | 5               | 133, 16                  | AX    |
| 3987           | 305 | 81/11/01                  | 1642:55                  | 1646:30                 | 346             | 104                 | 6052            | 2               | 133, 16                  |       |
| 3988           | 305 | 81/11/01                  | 1810:10                  | 1813:05                 | 478             | 2732                | 78750           | 10              | 134, 1                   | M ,FS |
| 3989           | 305 | 81/11/01                  | 2105:15                  | 2106:05                 | 135             | 992                 | 8078            | 5               | 134, 2                   |       |
| 3990           | 305 | 81/11/01                  | 2108:15                  | 2110:05                 | 220             | 98                  | 3241            | 2               | 134, 2                   |       |
| 3991           | 305 | 81/11/01                  | 2254:45                  | 2255:10                 | 220             | 1137                | 18495           | 9               | 134, 3                   | M     |
| 3992           | 306 | 81/11/02                  | 0031:55                  | 0032:30                 | 100             | 88                  |                 | 2               |                          |       |
| 3993           | 306 | 81/11/02                  | 0045:15                  | 0046:15                 | 88              | 125                 | 1061            | 2               | 134, 5                   |       |
| 3994           | 306 | 81/11/02                  | 0151:02                  | 0151:30                 | 60              | 69                  |                 | 2               |                          |       |
| 3995           | 306 | 81/11/02                  | 0232:00                  | 0232:55                 | 120             | 62                  |                 | 2               |                          |       |
| 3996           | 306 | 81/11/02                  | 0241:35                  | 0242:05                 | 71              | 167                 | 621             | 3               | 134, 6                   |       |
| 3997           | 306 | 81/11/02                  | 0350:00                  | 0350:10                 | 40              | 61                  |                 | 2               |                          |       |
| 3998           | 306 | 81/11/02                  | 0536:00                  | 0536:30                 | 65              | 57                  |                 | 2               |                          |       |
| 3999           | 306 | 81/11/02                  | 0722:25                  | 0722:45                 | 50              | 79                  |                 | 2               |                          |       |
| 4000           | 306 | 81/11/02                  | 0816:40                  | 0818:55                 | 175             | 83                  |                 | 2               |                          |       |
| 4001           | 306 | 81/11/02                  | 1213:10                  | 1213:50                 | 222             | 894                 | 17304           | 5               | 134, 7                   |       |
| 4002           | 306 | 81/11/02                  | 1500:40                  | 1500:50                 | 45              | 62                  |                 | 2               |                          |       |
| 4003           | 306 | 81/11/02                  | 1747:30                  | 1748:05                 | 196             | 75                  |                 | 2               |                          |       |
| 4004           | 306 | 81/11/02                  | 2125:25                  | 2127:05                 | 272             | 146                 | 5421            | 2               | 134, 8                   |       |
| 4005           | 306 | 81/11/02                  | 2254:05                  | 2255:05                 | 78              | 124                 | 1730            | 2               | 134, 9                   | M     |
| 4006           | 306 | 81/11/02                  | 2257:10                  | 2257:45                 | 55              | 115                 | 590             | 2               | 134, 9                   |       |
| 4007           | 307 | 81/11/03                  | 0408:55                  | 0409:35                 | 155             | 75                  |                 | 2               |                          |       |
| 4008           | 307 | 81/11/03                  | 0531:55                  | 0532:15                 | 76              | 127                 | 1254            | 2               | 134, 11                  |       |
| 4009           | 307 | 81/11/03                  | 0626:35                  | 0633:30                 | 1530            | 370                 | 1.48E+05        | 2               | 134, 12                  | M     |
| 4010           | 307 | 81/11/03                  | 0833:25                  | 0834:05                 | 60              | 85                  |                 | 2               |                          |       |
| 4011           | 307 | 81/11/03                  | 0944:50                  | 0945:15                 | 65              | 69                  |                 | 2               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 6847           | 307 | 81/11/03                  | 1311:33                  | 1311:42                 | 88              | 305                 | 5195            | 3               | 214, 6                   | I ,FS    |
| 6848           | 307 | 81/11/03                  | 1313:50                  | 1314:02                 | 27              | 52                  |                 | 2               | 214, 6                   | I        |
| 4012           | 307 | 81/11/03                  | 1343:20                  | 1343:45                 | 50              | 67                  |                 | 2               |                          |          |
| 4013           | 308 | 81/11/04                  | 0151:05                  | 0152:55                 | 183             | 156                 | 2102            | 2               | 134, 13                  |          |
| 6849           | 308 | 81/11/04                  | 0510:05                  | 0510:22                 | 40              | 74                  |                 | 2               |                          | I        |
| 6850           | 308 | 81/11/04                  | 0513:03                  | 0513:45                 | 132             | 313                 | 8206            | 3               | 214, 10                  | I        |
| 4014           | 308 | 81/11/04                  | 0636:40                  | 0637:55                 | 130             | 68                  |                 | 2               |                          |          |
| 4015           | 308 | 81/11/04                  | 0804:05                  | 0804:35                 | 85              | 71                  |                 | 2               |                          |          |
| 4016           | 308 | 81/11/04                  | 0822:35                  | 0824:20                 | 196             | 301                 | 2857            | 5               | 134, 14                  |          |
| 4017           | 308 | 81/11/04                  | 0953:10                  | 0953:35                 | 121             | 235                 | 4233            | 4               | 134, 15                  |          |
| 4018           | 308 | 81/11/04                  | 1103:25                  | 1109:35                 | 621             | 229                 | 21419           | 2               | 134, 16                  | M        |
| 4019           | 308 | 81/11/04                  | 1120:35                  | 1121:10                 | 60              | 59                  |                 | 2               |                          |          |
| 6852           | 308 | 81/11/04                  | 1605:20                  | 1605:45                 | 70              | 498                 | 7572            | 3               | 214, 8                   | M ,I     |
| 6853           | 308 | 81/11/04                  | 2104:12                  | 2104:31                 | 38              | 94                  |                 | 2               |                          | I        |
| 6854           | 308 | 81/11/04                  | 2108:56                  | 2109:21                 | 58              | 75                  |                 | 2               |                          | I        |
| 4020           | 308 | 81/11/04                  | 2221:00                  | 2221:55                 | 110             | 77                  |                 | 2               |                          |          |
| 4021           | 308 | 81/11/04                  | 2223:10                  | 2223:20                 | 60              | 75                  |                 | 2               |                          |          |
| 4022           | 309 | 81/11/05                  | 0030:10                  | 0031:05                 | 154             | 202                 | 4034            | 3               | 135, 1                   |          |
| 4023           | 309 | 81/11/05                  | 0119:10                  | 0119:30                 | 65              | 70                  |                 | 2               |                          | EW       |
| 4024           | 309 | 81/11/05                  | 0211:25                  | 0212:00                 | 339             | 1204                | 71088           | 9               | 135, 2                   | EW       |
| 4025           | 309 | 81/11/05                  | 0831:40                  | 0833:10                 | 478             | 3779                | 2.66E+05        | 10              | 135, 3                   | M ,FS,EW |
| 4026           | 309 | 81/11/05                  | 1237:10                  | 1238:50                 | 730             | 1013                | 1.24E+05        | 10              | 135, 4                   | EN       |
| 4027           | 309 | 81/11/05                  | 1404:35                  | 1406:25                 | 302             | 194                 | 12290           | 2               | 135, 5                   | M        |
| 4028           | 309 | 81/11/05                  | 1730:45                  | 1732:05                 | 200             | 253                 | 1708            | 4               | 135, 7                   |          |
| 4029           | 310 | 81/11/06                  | 0000:05                  | 0001:30                 | 131             | 774                 | 9355            | 5               | 135, 8                   | M ,FS    |
| 4030           | 310 | 81/11/06                  | 1444:30                  | 1444:40                 | 35              | 83                  |                 | 2               |                          |          |
| 4031           | 310 | 81/11/06                  | 1544:45                  | 1545:55                 | 140             | 78                  |                 | 2               |                          |          |
| 6856           | 310 | 81/11/06                  | 1907:29                  | 1907:42                 | 40              | 67                  |                 | 2               |                          | I        |
| 4032           | 310 | 81/11/06                  | 2018:00                  | 2020:30                 | 180             | 85                  |                 | 2               |                          |          |
| 4033           | 311 | 81/11/07                  | 0301:35                  | 0302:30                 | 134             | 346                 | 9329            | 4               | 135, 10                  | ND       |
| 4034           | 311 | 81/11/07                  | 0311:20                  | 0312:10                 | 85              | 79                  |                 | 2               |                          | ND       |
| 4035           | 311 | 81/11/07                  | 0317:20                  | 0317:35                 | 85              | 85                  |                 | 2               |                          |          |
| 4036           | 311 | 81/11/07                  | 0718:45                  | 0719:40                 | 304             | 206                 | 8711            | 2               | 135, 11                  |          |
| 4037           | 311 | 81/11/07                  | 0810:30                  | 0810:55                 | 57              | 114                 | 766             | 2               | 135, 12                  |          |
| 4038           | 312 | 81/11/08                  | 0124:10                  | 0124:25                 | 37              | 184                 | 675             | 2               | 135, 13                  |          |
| 4039           | 312 | 81/11/08                  | 0315:55                  | 0318:15                 | 325             | 550                 | 66405           | 3               | 135, 14                  | M        |
| 4040           | 312 | 81/11/08                  | 0357:30                  | 0358:10                 | 160             | 1819                | 74482           | 5               | 135, 15                  |          |
| 4041           | 312 | 81/11/08                  | 1055:45                  | 1056:35                 | 105             | 90                  |                 | 2               |                          |          |
| 4042           | 312 | 81/11/08                  | 2347:00                  | 2347:25                 | 64              | 150                 | 1410            | 2               | 135, 16                  |          |
| 4043           | 313 | 81/11/09                  | 0054:00                  | 0054:30                 | 65              | 62                  |                 | 2               |                          |          |
| 4044           | 313 | 81/11/09                  | 0443:50                  | 0445:05                 | 130             | 67                  |                 | 2               |                          |          |
| 4045           | 313 | 81/11/09                  | 0541:30                  | 0541:40                 | 20              | 83                  |                 | 2               |                          |          |
| 4046           | 313 | 81/11/09                  | 0613:25                  | 0614:40                 | 456             | 210                 | 11269           | 3               | 136, 1                   |          |
| 6858           | 313 | 81/11/09                  | 0716:41                  | 0716:55                 | 138             | 66                  |                 | 2               |                          | I        |
| 4047           | 313 | 81/11/09                  | 0928:45                  | 0929:45                 | 176             | 792                 | 9957            | 5               | 136, 2                   |          |
| 4048           | 313 | 81/11/09                  | 1019:55                  | 1020:10                 | 20              | 57                  |                 | 2               |                          |          |
| 4049           | 313 | 81/11/09                  | 1022:10                  | 1022:55                 | 105             | 77                  |                 | 2               |                          |          |
| 4050           | 313 | 81/11/09                  | 1231:35                  | 1239:00                 | 624             | 585                 | 96061           | 4               | 136, 3                   | M        |
| 4051           | 313 | 81/11/09                  | 1318:15                  | 1318:30                 | 1081            | 266                 | 47364           | 7               | 136, 4                   | SN,ES    |
| 4052           | 314 | 81/11/10                  | 0355:30                  | 0357:05                 | 145             | 61                  |                 | 2               |                          |          |
| 4053           | 314 | 81/11/10                  | 0531:40                  | 0531:55                 | 145             | 68                  |                 | 2               |                          |          |
| 4054           | 314 | 81/11/10                  | 0544:20                  | 0546:30                 | 680             | 3156                | 2.31E+05        | 7               | 136, 5                   |          |
| 4055           | 314 | 81/11/10                  | 1458:50                  | 1459:30                 | 207             | 141                 | 5251            | 2               | 136, 6                   |          |
| 4056           | 314 | 81/11/10                  | 1621:30                  | 1622:25                 | 133             | 422                 | 4786            | 3               | 136, 7                   | M        |
| 4057           | 314 | 81/11/10                  | 1715:10                  | 1716:20                 | 140             | 91                  |                 | 2               |                          |          |
| 4058           | 315 | 81/11/11                  | 0029:35                  | 0030:00                 | 276             | 174                 | 5624            | 2               | 136, 9                   | M        |
| 4059           | 315 | 81/11/11                  | 0334:00                  | 0335:00                 | 195             | 74                  |                 | 2               |                          |          |
| 4060           | 315 | 81/11/11                  | 0343:25                  | 0343:55                 | 112             | 206                 | 3696            | 4               | 136, 11                  |          |
| 4061           | 315 | 81/11/11                  | 0659:40                  | 0701:15                 | 130             | 99                  |                 | 2               |                          |          |
| 4062           | 315 | 81/11/11                  | 0718:25                  | 0719:25                 | 86              | 198                 | 4184            | 4               | 136, 12                  |          |
| 4063           | 315 | 81/11/11                  | 0733:15                  | 0733:45                 | 75              | 100                 | 1137            | 2               |                          |          |
| 4064           | 315 | 81/11/11                  | 0849:10                  | 0851:05                 | 764             | 638                 | 62744           | 5               | 136, 13                  | M        |
| 4065           | 315 | 81/11/11                  | 1127:10                  | 1128:30                 | 138             | 539                 | 8376            | 5               | 136, 14                  | M        |
| 4066           | 315 | 81/11/11                  | 1216:10                  | 1217:00                 | 90              | 60                  |                 | 2               |                          |          |
| 4067           | 315 | 81/11/11                  | 1259:50                  | 1300:40                 | 218             | 124                 | 4500            | 2               | 136, 15                  |          |
| 4068           | 315 | 81/11/11                  | 1448:25                  | 1449:20                 | 123             | 445                 | 12017           | 5               | 136, 16                  | M ,EN    |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS          |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------------|
| 4069           | 315 | 81/11/11                  | 1949:15                  | 1953:44                 | 285             | 113                 | 6158            | 3               | 137, 1                   | ES,AX          |
| 4070           | 315 | 81/11/11                  | 2304:30                  | 2311:10                 | 623             | 78                  | 7387            | 3               | 137, 2                   | AX             |
| 4071           | 316 | 81/11/12                  | 0058:50                  | 0059:15                 | 75              | 83                  |                 | 2               |                          |                |
| 4072           | 316 | 81/11/12                  | 0152:15                  | 0153:05                 | 166             | 300                 | 13032           | 5               | 137, 3                   |                |
| 6269           | 316 | 81/11/12                  | 0337:42                  | 0338:18                 | 557             | 1711                | 63740           | 7               | 195, 3                   | M ,I           |
| 6293           | 316 | 81/11/12                  | 0624:14                  | 0627:44                 | 709             | 170                 | 27617           | 2               | 195, 11                  | I              |
| 6859           | 316 | 81/11/12                  | 0940:25                  | 0940:43                 | 50              | 145                 | 875             | 2               | 214, 12                  | I              |
| 4073           | 316 | 81/11/12                  | 1111:00                  | 1111:45                 | 175             | 64                  |                 | 2               |                          |                |
| 4074           | 316 | 81/11/12                  | 1203:00                  | 1203:55                 | 153             | 93                  |                 | 2               |                          |                |
| 6570           | 316 | 81/11/12                  | 1555:58                  | 1601:46                 | 1382            | 22520               | 1.92E+06        | 11              | 207, 8                   | M ,I ,SN,ES,FS |
| 4075           | 316 | 81/11/12                  | 1917:00                  | 1918:30                 | 175             | 72                  |                 | 2               |                          |                |
| 4076           | 316 | 81/11/12                  | 1921:05                  | 1922:10                 | 188             | 121                 | 4129            | 3               | 137, 4                   |                |
| 4077           | 316 | 81/11/12                  | 1931:05                  | 1931:40                 | 50              | 67                  |                 | 2               |                          |                |
| 4078           | 316 | 81/11/12                  | 2102:35                  | 2103:45                 | 200             | 365                 | 6542            | 4               | 137, 5                   |                |
| 4100           | 316 | 81/11/12                  | 2355:00                  | 2356:25                 | 146             | 269                 | 6760            | 3               | 137, 12                  |                |
| 4079           | 317 | 81/11/13                  | 0014:40                  | 0015:20                 | 245             | 129                 | 3786            | 3               | 137, 6                   |                |
| 4080           | 317 | 81/11/13                  | 0026:05                  | 0027:35                 | 135             | 78                  |                 | 2               |                          |                |
| 4081           | 317 | 81/11/13                  | 0031:50                  | 0034:50                 | 270             | 109                 | 3199            | 2               | 137, 6                   |                |
| 4082           | 317 | 81/11/13                  | 0049:25                  | 0050:15                 | 134             | 201                 | 5660            | 4               | 137, 6                   |                |
| 4083           | 317 | 81/11/13                  | 0137:40                  | 0137:45                 | 145             | 81                  |                 | 2               |                          |                |
| 4084           | 317 | 81/11/13                  | 0142:05                  | 0142:30                 | 105             | 96                  |                 | 2               |                          |                |
| 4085           | 317 | 81/11/13                  | 0144:15                  | 0145:45                 | 170             | 74                  |                 | 2               |                          |                |
| 4086           | 317 | 81/11/13                  | 0154:00                  | 0156:00                 | 468             | 112                 | 11189           | 2               | 137, 7                   |                |
| 4087           | 317 | 81/11/13                  | 0322:05                  | 0327:10                 | 488             | 94                  | 5533            | 2               | 137, 8                   |                |
| 4088           | 317 | 81/11/13                  | 0332:15                  | 0334:10                 | 222             | 1494                | 28616           | 10              | 137, 8                   | FS             |
| 4089           | 317 | 81/11/13                  | 0343:05                  | 0343:25                 | 58              | 218                 | 2417            | 4               | 137, 8                   |                |
| 4090           | 317 | 81/11/13                  | 0346:30                  | 0347:25                 | 392             | 74                  | 3824            | 2               | 137, 8                   |                |
| 4091           | 317 | 81/11/13                  | 0439:50                  | 0440:25                 | 155             | 79                  |                 | 2               |                          |                |
| 4092           | 317 | 81/11/13                  | 0455:00                  | 0455:15                 | 175             | 78                  |                 | 2               |                          |                |
| 4093           | 317 | 81/11/13                  | 0507:10                  | 0507:30                 | 40              | 96                  |                 | 2               |                          |                |
| 4094           | 317 | 81/11/13                  | 0509:00                  | 0509:10                 | 45              | 76                  |                 | 2               |                          |                |
| 4095           | 317 | 81/11/13                  | 0805:55                  | 0807:25                 | 649             | 274                 | 32295           | 5               | 137, 9                   |                |
| 4096           | 317 | 81/11/13                  | 1102:10                  | 1103:15                 | 442             | 5042                | 2.84E+05        | 7               | 137, 10                  | FS             |
| 4097           | 317 | 81/11/13                  | 1150:00                  | 1150:24                 | 45              | 99                  |                 | 2               |                          |                |
| 4098           | 317 | 81/11/13                  | 1921:10                  | 1921:55                 | 435             | 173                 | 7317            | 2               | 137, 11                  |                |
| 4099           | 317 | 81/11/13                  | 2342:15                  | 2344:00                 | 281             | 437                 | 10512           | 5               | 137, 12                  |                |
| 4101           | 318 | 81/11/14                  | 0627:40                  | 0628:00                 | 40              | 73                  |                 | 2               |                          |                |
| 4102           | 318 | 81/11/14                  | 0752:40                  | 0802:10                 | 803             | 185                 | 23162           | 10              | 137, 14                  |                |
| 4103           | 318 | 81/11/14                  | 0820:35                  | 0821:05                 | 51              | 278                 | 2201            | 4               | 137, 15                  |                |
| 6860           | 318 | 81/11/14                  | 1401:41                  | 1402:32                 | 92              | 64                  |                 | 2               |                          | I              |
| 6861           | 318 | 81/11/14                  | 1405:50                  | 1406:25                 | 53              | 66                  |                 | 2               |                          | I              |
| 4104           | 318 | 81/11/14                  | 2154:45                  | 2202:10                 | 3381            | 1012                | 3.96E+05        | 9               | 137, 16                  |                |
| 4105           | 318 | 81/11/14                  | 2331:25                  | 2331:55                 | 55              | 95                  |                 | 2               |                          |                |
| 4106           | 319 | 81/11/15                  | 0004:45                  | 0005:15                 | 60              | 97                  |                 | 2               |                          |                |
| 4107           | 319 | 81/11/15                  | 0134:40                  | 0135:15                 | 81              | 493                 | 9259            | 4               | 138, 1                   |                |
| 4108           | 319 | 81/11/15                  | 0303:15                  | 0303:35                 | 56              | 133                 | 1253            | 2               | 138, 3                   |                |
| 4109           | 319 | 81/11/15                  | 0307:40                  | 0308:35                 | 279             | 130                 | 4026            | 2               | 138, 3                   |                |
| 4110           | 319 | 81/11/15                  | 0426:45                  | 0427:20                 | 75              | 187                 | 3184            | 3               | 138, 4                   |                |
| 4111           | 319 | 81/11/15                  | 1527:15                  | 1527:55                 | 112             | 117                 | 1737            | 2               | 138, 5                   | EW             |
| 4112           | 319 | 81/11/15                  | 2348:30                  | 2349:10                 | 120             | 67                  |                 | 2               |                          |                |
| 4113           | 320 | 81/11/16                  | 1247:20                  | 1250:15                 | 515             | 176                 | 17409           | 2               | 138, 6                   |                |
| 4114           | 321 | 81/11/17                  | 0426:40                  | 0427:00                 | 79              | 292                 | 2936            | 3               | 138, 7                   |                |
| 4115           | 321 | 81/11/17                  | 0732:50                  | 0733:30                 | 85              | 73                  |                 | 2               |                          |                |
| 6862           | 321 | 81/11/17                  | 0921:30                  | 0922:08                 | 51              | 69                  |                 | 2               |                          | I              |
| 6863           | 321 | 81/11/17                  | 0928:40                  | 0929:29                 | 80              | 66                  |                 | 2               |                          | I              |
| 4116           | 321 | 81/11/17                  | 1150:20                  | 1155:17                 | 483             | 519                 | 71584           | 4               | 124, 13                  | EW             |
| 4117           | 321 | 81/11/17                  | 2150:25                  | 2151:30                 | 110             | 83                  |                 | 2               |                          |                |
| 4118           | 321 | 81/11/17                  | 2302:20                  | 2302:40                 | 100             | 68                  |                 | 2               |                          |                |
| 4119           | 322 | 81/11/18                  | 0109:40                  | 0111:15                 | 140             | 88                  |                 | 2               |                          |                |
| 4120           | 322 | 81/11/18                  | 0119:25                  | 0123:05                 | 502             | 162                 | 13181           | 2               | 138, 10                  |                |
| 4121           | 322 | 81/11/18                  | 0304:00                  | 0305:00                 | 110             | 57                  |                 | 2               |                          |                |
| 4122           | 322 | 81/11/18                  | 0411:55                  | 0414:30                 | 477             | 1498                | 1.12E+05        | 5               | 138, 11                  | FS             |
| 4123           | 322 | 81/11/18                  | 0602:15                  | 0603:00                 | 123             | 113                 | 1725            | 4               | 138, 13                  |                |
| 4124           | 322 | 81/11/18                  | 0906:35                  | 0908:10                 | 173             | 142                 | 3544            | 2               | 138, 14                  |                |
| 4125           | 322 | 81/11/18                  | 1411:45                  | 1411:45                 | 80              | 66                  |                 | 2               |                          |                |
| 4126           | 323 | 81/11/19                  | 0222:35                  | 0228:15                 | 1597            | 252                 | 45187           | 3               | 138, 15                  |                |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4127           | 323 | 81/11/19                  | 1048:15                  | 1048:55                 | 114             | 152                 | 2035            | 2               | 138, 16                  |       |
| 4128           | 324 | 81/11/20                  | 0025:55                  | 0027:50                 | 205             | 70                  |                 | 2               |                          |       |
| 4129           | 324 | 81/11/20                  | 0458:45                  | 0510:05                 | 957             | 293                 | 56075           | 13              | 139, 1                   |       |
| 4130           | 324 | 81/11/20                  | 1802:10                  | 1802:20                 | 60              | 61                  |                 | 2               |                          |       |
| 4131           | 325 | 81/11/21                  | 1553:20                  | 1556:20                 | 305             | 213                 | 5887            | 2               | 139, 2                   |       |
| 4132           | 325 | 81/11/21                  | 2244:50                  | 2245:05                 | 185             | 67                  |                 | 2               |                          |       |
| 4133           | 326 | 81/11/22                  | 0322:00                  | 0322:40                 | 615             | 3700                | 87699           | 8               | 139, 3                   | M,FS  |
| 4134           | 326 | 81/11/22                  | 0449:35                  | 0449:40                 | 115             | 101                 | 2557            | 2               |                          | SA    |
| 4135           | 326 | 81/11/22                  | 0655:35                  | 0656:55                 | 711             | 1899                | 2.20E+05        | 7               | 139, 5                   | M,FS  |
| 4731           | 326 | 81/11/22                  | 1742:15                  | 1743:45                 | 98              | 101                 | 471             | 2               | 155, 2                   | I,SA  |
| 4136           | 326 | 81/11/22                  | 2042:05                  | 2042:40                 | 50              | 64                  |                 | 2               |                          |       |
| 4137           | 326 | 81/11/22                  | 2223:15                  | 2223:40                 | 50              | 81                  |                 | 2               |                          |       |
| 4138           | 326 | 81/11/22                  | 2242:15                  | 2242:35                 | 70              | 64                  |                 | 2               |                          |       |
| 4139           | 327 | 81/11/23                  | 0444:20                  | 0444:50                 | 90              | 67                  |                 | 2               |                          |       |
| 4140           | 327 | 81/11/23                  | 0948:45                  | 0949:05                 | 100             | 77                  |                 | 2               |                          |       |
| 4141           | 327 | 81/11/23                  | 1308:30                  | 1309:15                 | 140             | 84                  |                 | 2               |                          |       |
| 4142           | 327 | 81/11/23                  | 1530:05                  | 1530:35                 | 90              | 68                  |                 | 2               |                          |       |
| 4143           | 328 | 81/11/24                  | 0111:15                  | 0114:05                 | 450             | 78                  | 4492            | 4               | 139, 6                   |       |
| 4144           | 328 | 81/11/24                  | 0136:15                  | 0136:40                 | 70              | 72                  |                 | 2               |                          |       |
| 4145           | 328 | 81/11/24                  | 1429:10                  | 1429:55                 | 103             | 105                 | 1137            | 2               | 139, 7                   |       |
| 4146           | 328 | 81/11/24                  | 1431:20                  | 1431:50                 | 69              | 141                 | 1548            | 2               | 139, 7                   |       |
| 6864           | 328 | 81/11/24                  | 1705:49                  | 1706:18                 | 31              | 71                  |                 | 2               |                          | I     |
| 4147           | 329 | 81/11/25                  | 0302:40                  | 0303:55                 | 156             | 120                 | 2071            | 2               | 139, 8                   |       |
| 4148           | 329 | 81/11/25                  | 0412:15                  | 0412:15                 | 194             | 163                 | 4767            | 9               | 139, 9                   | SA,AX |
| 4149           | 329 | 81/11/25                  | 0742:10                  | 0745:30                 | 615             | 115                 | 8409            | 2               | 139, 10                  |       |
| 4150           | 329 | 81/11/25                  | 1252:10                  | 1253:15                 | 104             | 179                 | 5588            | 2               | 139, 11                  | M     |
| 4151           | 329 | 81/11/25                  | 1815:25                  | 1817:00                 | 330             | 633                 | 43279           | 4               | 139, 12                  | M     |
| 4152           | 329 | 81/11/25                  | 2045:10                  | 2045:15                 | 25              | 66                  |                 | 2               |                          |       |
| 4153           | 329 | 81/11/25                  | 2317:25                  | 2319:30                 | 535             | 132                 | 8651            | 2               | 139, 14                  |       |
| 4154           | 330 | 81/11/26                  | 0212:50                  | 0216:35                 | 434             | 187                 | 21369           | 11              | 139, 15                  | SA    |
| 6866           | 330 | 81/11/26                  | 0930:50                  | 0931:29                 | 45              | 168                 | 1523            | 3               | 214, 15                  | I,EG  |
| 4155           | 330 | 81/11/26                  | 1938:10                  | 1943:05                 | 875             | 96                  | 7965            | 2               | 139, 16                  | EW    |
| 4156           | 330 | 81/11/26                  | 2324:40                  | 2325:30                 | 107             | 193                 | 4177            | 2               | 140, 1                   | EW    |
| 4157           | 331 | 81/11/27                  | 2111:00                  | 2112:40                 | 273             | 103                 | 6249            | 4               | 140, 2                   |       |
| 4158           | 332 | 81/11/28                  | 0729:15                  | 0731:50                 | 290             | 220                 | 26100           | 2               | 140, 3                   | ND    |
| 4159           | 333 | 81/11/29                  | 0204:40                  | 0206:45                 | 459             | 75                  | 4198            | 2               | 140, 4                   |       |
| 4160           | 333 | 81/11/29                  | 0659:05                  | 0659:30                 | 75              | 72                  |                 | 2               |                          |       |
| 4161           | 333 | 81/11/29                  | 1553:40                  | 1626:00                 | 3256            | 95                  | 49447           | 2               | 140, 5                   |       |
| 4162           | 333 | 81/11/29                  | 1813:00                  | 1814:05                 | 92              | 223                 | 2300            | 2               | 140, 6                   | FS    |
| 4163           | 333 | 81/11/29                  | 1927:45                  | 1929:20                 | 291             | 999                 | 13442           | 5               | 140, 7                   |       |
| 4164           | 334 | 81/11/30                  | 0823:35                  | 0824:00                 | 70              | 94                  |                 | 2               |                          |       |
| 4165           | 334 | 81/11/30                  | 1136:35                  | 1141:05                 | 500             | 167                 | 8950            | 2               | 140, 8                   |       |
| 4166           | 334 | 81/11/30                  | 1456:35                  | 1457:10                 | 184             | 1544                | 21682           | 4               | 140, 9                   |       |
| 4167           | 335 | 81/12/01                  | 0314:20                  | 0314:40                 | 105             | 69                  |                 | 2               |                          |       |
| 4168           | 335 | 81/12/01                  | 0826:55                  | 0827:40                 | 80              | 82                  |                 | 2               |                          |       |
| 4169           | 335 | 81/12/01                  | 1250:25                  | 1251:00                 | 65              | 72                  |                 | 2               |                          |       |
| 4170           | 335 | 81/12/01                  | 1416:35                  | 1417:20                 | 100             | 68                  |                 | 2               |                          |       |
| 4171           | 335 | 81/12/01                  | 1705:40                  | 1708:55                 | 527             | 609                 | 37777           | 7               | 140, 10                  | M,SN  |
| 4172           | 335 | 81/12/01                  | 1858:20                  | 1858:55                 | 145             | 90                  |                 | 2               |                          |       |
| 4173           | 336 | 81/12/02                  | 0310:20                  | 0310:45                 | 125             | 88                  |                 | 2               |                          |       |
| 4174           | 336 | 81/12/02                  | 1357:05                  | 1357:50                 | 80              | 72                  |                 | 2               |                          |       |
| 6867           | 336 | 81/12/02                  | 1705:59                  | 1707:24                 | 410             | 256                 | 12568           | 4               | 214, 16                  | I     |
| 4175           | 336 | 81/12/02                  | 1852:55                  | 1855:10                 | 205             | 70                  |                 | 2               |                          |       |
| 4176           | 336 | 81/12/02                  | 2030:40                  | 2031:30                 | 140             | 147                 | 5106            | 2               | 140, 12                  |       |
| 6868           | 337 | 81/12/03                  | 0555:44                  | 0557:53                 | 186             | 86                  |                 | 2               |                          | I     |
| 6869           | 337 | 81/12/03                  | 0609:48                  | 0609:57                 | 38              | 83                  |                 | 2               |                          | I     |
| 4177           | 337 | 81/12/03                  | 1737:00                  | 1737:25                 | 72              | 110                 | 960             | 2               | 140, 13                  |       |
| 4178           | 337 | 81/12/03                  | 1900:50                  | 1901:00                 | 20              | 91                  |                 | 2               |                          |       |
| 4179           | 337 | 81/12/03                  | 2007:10                  | 2007:55                 | 80              | 68                  |                 | 2               |                          | EW    |
| 4180           | 337 | 81/12/03                  | 2046:30                  | 2047:15                 | 120             | 70                  |                 | 2               |                          |       |
| 4181           | 337 | 81/12/03                  | 2207:05                  | 2207:35                 | 80              | 64                  |                 | 2               |                          |       |
| 4182           | 338 | 81/12/04                  | 0857:50                  | 0858:10                 | 60              | 76                  |                 | 2               |                          |       |
| 4183           | 338 | 81/12/04                  | 1500:50                  | 1501:30                 | 75              | 59                  |                 | 2               |                          |       |
| 4184           | 338 | 81/12/04                  | 1726:15                  | 1727:55                 | 224             | 515                 | 1.10E+05        | 3               | 140, 14                  | ND    |
| 4185           | 338 | 81/12/04                  | 2102:00                  | 2105:20                 | 311             | 117                 | 8862            | 4               | 140, 15                  | EW    |
| 6871           | 339 | 81/12/05                  | 0706:17                  | 0708:03                 | 131             | 325                 | 3434            | 3               | 215, 1                   | I     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4187           | 339 | 81/12/05                  | 1034:00                  | 1034:45                 | 95              | 65                  |                 | 2               |                          | EW    |
| 6872           | 339 | 81/12/05                  | 1136:59                  | 1137:50                 | 65              | 653                 | 9029            | 4               | 215, 2                   | I, ES |
| 6873           | 339 | 81/12/05                  | 1206:57                  | 1207:43                 | 100             | 68                  |                 | 2               |                          | I     |
| 6874           | 339 | 81/12/05                  | 1316:01                  | 1316:44                 | 58              | 207                 | 2157            | 3               | 215, 3                   | I     |
| 6875           | 339 | 81/12/05                  | 1318:54                  | 1320:20                 | 113             | 73                  |                 | 2               |                          | I     |
| 6876           | 339 | 81/12/05                  | 1540:26                  | 1541:11                 | 57              | 67                  |                 | 2               |                          | I     |
| 4186           | 340 | 81/12/06                  | 0247:50                  | 0248:40                 | 75              | 78                  |                 | 2               |                          | EW    |
| 4188           | 340 | 81/12/06                  | 1956:00                  | 1957:30                 | 191             | 84                  |                 | 2               |                          |       |
| 4189           | 340 | 81/12/06                  | 2253:40                  | 2254:10                 | 51              | 110                 | 464             | 2               | 140, 16                  |       |
| 4190           | 341 | 81/12/07                  | 0044:35                  | 0045:00                 | 165             | 85                  |                 | 2               |                          |       |
| 4191           | 341 | 81/12/07                  | 0057:30                  | 0058:25                 | 214             | 279                 | 5752            | 4               | 141, 1                   |       |
| 4192           | 341 | 81/12/07                  | 0334:30                  | 0335:20                 | 291             | 398                 | 14691           | 4               | 141, 2                   |       |
| 4193           | 341 | 81/12/07                  | 0654:05                  | 0654:25                 | 47              | 162                 | 1088            | 2               | 141, 3                   |       |
| 4194           | 341 | 81/12/07                  | 1331:05                  | 1334:05                 | 650             | 200                 | 16748           | 2               | 141, 4                   |       |
| 4195           | 341 | 81/12/07                  | 1442:15                  | 1451:05                 | 750             | 3311                | 74095           | 15              | 141, 5                   |       |
| 4196           | 342 | 81/12/08                  | 0006:45                  | 0007:10                 | 60              | 69                  |                 | 2               |                          |       |
| 4197           | 342 | 81/12/08                  | 0033:15                  | 0034:20                 | 198             | 290                 | 9866            | 2               | 141, 6                   |       |
| 4198           | 342 | 81/12/08                  | 0139:55                  | 0143:25                 | 481             | 322                 | 16830           | 4               | 141, 7                   |       |
| 4199           | 342 | 81/12/08                  | 0311:40                  | 0312:20                 | 75              | 80                  |                 | 2               |                          |       |
| 4200           | 342 | 81/12/08                  | 0334:45                  | 0336:00                 | 120             | 90                  |                 | 2               |                          |       |
| 4201           | 342 | 81/12/08                  | 0645:00                  | 0645:35                 | 70              | 83                  |                 | 2               |                          |       |
| 6878           | 342 | 81/12/08                  | 0953:34                  | 0953:54                 | 48              | 77                  |                 | 2               |                          | I     |
| 6879           | 342 | 81/12/08                  | 1026:30                  | 1026:58                 | 42              | 129                 | 1035            | 2               | 215, 5                   | I     |
| 6880           | 342 | 81/12/08                  | 1114:13                  | 1114:40                 | 63              | 585                 | 5899            | 4               | 215, 6                   | I, FS |
| 6881           | 342 | 81/12/08                  | 1125:54                  | 1127:05                 | 102             | 90                  |                 | 2               |                          | I     |
| 4202           | 342 | 81/12/08                  | 1236:00                  | 1236:50                 | 119             | 796                 | 17362           | 5               | 141, 8                   |       |
| 4203           | 342 | 81/12/08                  | 1420:45                  | 1422:00                 | 120             | 81                  |                 | 2               |                          |       |
| 4204           | 342 | 81/12/08                  | 1633:10                  | 1634:20                 | 110             | 99                  |                 | 2               |                          |       |
| 4205           | 342 | 81/12/08                  | 1753:15                  | 1800:15                 | 683             | 134                 | 16064           | 2               | 141, 9                   |       |
| 4206           | 342 | 81/12/08                  | 1825:00                  | 1826:40                 | 160             | 67                  |                 | 2               |                          |       |
| 4207           | 343 | 81/12/09                  | 0132:00                  | 0133:55                 | 214             | 101                 | 3487            | 2               | 141, 10                  |       |
| 4208           | 343 | 81/12/09                  | 0339:15                  | 0343:30                 | 1196            | 3156                | 4.30E+05        | 4               | 141, 11                  | EN    |
| 4209           | 343 | 81/12/09                  | 0504:15                  | 0505:30                 | 155             | 92                  |                 | 2               |                          |       |
| 4210           | 343 | 81/12/09                  | 0509:35                  | 0512:00                 | 218             | 118                 | 3669            | 2               | 141, 12                  |       |
| 4211           | 343 | 81/12/09                  | 0636:40                  | 0645:10                 | 1522            | 825                 | 1.30E+05        | 2               | 141, 13                  | M     |
| 4212           | 343 | 81/12/09                  | 1500:30                  | 1503:10                 | 197             | 75                  |                 | 2               |                          |       |
| 4213           | 343 | 81/12/09                  | 1625:20                  | 1625:40                 | 49              | 207                 | 1291            | 4               | 141, 14                  |       |
| 4214           | 343 | 81/12/09                  | 1853:50                  | 1905:30                 | 2765            | 818                 | 4.91E+05        | 10              | 141, 15                  | M, ES |
| 4215           | 343 | 81/12/09                  | 2021:00                  | 2022:30                 | 1452            | 129                 | 26578           | 2               | 141, 16                  | SN    |
| 4216           | 343 | 81/12/09                  | 2212:05                  | 2212:20                 | 87              | 458                 | 4528            | 4               | 142, 1                   | M     |
| 4217           | 343 | 81/12/09                  | 2217:20                  | 2217:35                 | 106             | 153                 | 1204            | 2               | 142, 1                   |       |
| 4218           | 344 | 81/12/10                  | 0154:55                  | 0155:10                 | 110             | 76                  |                 | 2               |                          |       |
| 6883           | 344 | 81/12/10                  | 0825:44                  | 0825:59                 | 37              | 84                  |                 | 2               |                          | I     |
| 4219           | 344 | 81/12/10                  | 1234:40                  | 1234:55                 | 40              | 77                  |                 | 2               |                          |       |
| 4220           | 344 | 81/12/10                  | 1236:25                  | 1237:00                 | 60              | 95                  |                 | 2               |                          |       |
| 4221           | 344 | 81/12/10                  | 1249:15                  | 1249:25                 | 35              | 98                  |                 | 2               |                          |       |
| 4222           | 344 | 81/12/10                  | 1250:45                  | 1251:00                 | 40              | 90                  |                 | 2               |                          |       |
| 4223           | 344 | 81/12/10                  | 1530:25                  | 1531:20                 | 175             | 336                 | 11323           | 4               | 142, 3                   |       |
| 4224           | 344 | 81/12/10                  | 1538:15                  | 1538:30                 | 60              | 74                  |                 | 2               |                          |       |
| 4225           | 344 | 81/12/10                  | 1706:10                  | 1706:30                 | 75              | 82                  |                 | 2               |                          |       |
| 4226           | 344 | 81/12/10                  | 1710:15                  | 1710:35                 | 110             | 72                  |                 | 2               |                          |       |
| 4227           | 344 | 81/12/10                  | 2147:05                  | 2148:40                 | 348             | 285                 | 12878           | 2               | 142, 4                   | M     |
| 6884           | 345 | 81/12/11                  | 0014:32                  | 0014:52                 | 59              | 65                  |                 | 2               |                          | I     |
| 4228           | 345 | 81/12/11                  | 0303:30                  | 0304:15                 | 96              | 598                 | 7803            | 5               | 142, 6                   | M     |
| 4229           | 345 | 81/12/11                  | 0311:55                  | 0312:40                 | 110             | 94                  |                 | 2               |                          |       |
| 4230           | 345 | 81/12/11                  | 0439:05                  | 0440:00                 | 238             | 411                 | 12695           | 3               | 142, 8                   |       |
| 4231           | 345 | 81/12/11                  | 0728:15                  | 0728:55                 | 140             | 75                  |                 | 2               |                          |       |
| 4232           | 345 | 81/12/11                  | 0741:40                  | 0743:10                 | 322             | 123                 | 4155            | 2               | 142, 9                   |       |
| 4233           | 345 | 81/12/11                  | 2014:50                  | 2015:40                 | 150             | 212                 | 4426            | 2               | 142, 10                  |       |
| 4234           | 345 | 81/12/11                  | 2151:20                  | 2151:50                 | 140             | 67                  |                 | 2               |                          |       |
| 4235           | 345 | 81/12/11                  | 2325:15                  | 2326:45                 | 180             | 74                  |                 | 2               |                          |       |
| 4236           | 346 | 81/12/12                  | 0318:45                  | 0322:35                 | 487             | 946                 | 51799           | 4               | 142, 11                  | EN    |
| 4237           | 346 | 81/12/12                  | 0422:35                  | 0423:00                 | 180             | 183                 | 4583            | 2               | 142, 12                  |       |
| 4238           | 346 | 81/12/12                  | 0740:55                  | 0742:10                 | 120             | 70                  |                 | 2               |                          |       |
| 4239           | 346 | 81/12/12                  | 1245:15                  | 1245:25                 | 48              | 262                 | 1437            | 3               | 142, 13                  |       |
| 4241           | 347 | 81/12/13                  | 1054:20                  | 1057:15                 | 505             | 375                 | 20414           | 2               | 142, 15                  |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4242           | 347 | 81/12/13                  | 1339:30                  | 1340:05                 | 45              | 74                  |                 | 2               |                          |       |
| 4240           | 347 | 81/12/13                  | 1640:22                  | 1646:22                 | 1307            | 781                 | 1.06E+05        | 5               | 142, 14                  | M ,I  |
| 4243           | 347 | 81/12/13                  | 2125:15                  | 2127:30                 | 622             | 582                 | 86167           | 4               | 142, 16                  | M     |
| 4244           | 348 | 81/12/14                  | 0828:10                  | 0829:00                 | 70              | 79                  |                 | 2               |                          |       |
| 4245           | 348 | 81/12/14                  | 1202:55                  | 1205:20                 | 170             | 80                  |                 | 2               |                          |       |
| 4246           | 348 | 81/12/14                  | 1759:40                  | 1800:55                 | 130             | 72                  |                 | 2               |                          |       |
| 4247           | 348 | 81/12/14                  | 1802:25                  | 1803:05                 | 110             | 95                  |                 | 2               |                          |       |
| 4248           | 348 | 81/12/14                  | 1952:15                  | 1952:40                 | 80              | 73                  |                 | 2               |                          |       |
| 4249           | 348 | 81/12/14                  | 2142:30                  | 2142:45                 | 39              | 110                 | 841             | 2               | 143, 1                   |       |
| 4250           | 349 | 81/12/15                  | 0045:55                  | 0047:15                 | 246             | 105                 | 3493            | 2               | 143, 2                   |       |
| 4251           | 349 | 81/12/15                  | 0328:30                  | 0328:40                 | 25              | 69                  |                 | 2               |                          |       |
| 6886           | 349 | 81/12/15                  | 0734:41                  | 0735:23                 | 81              | 72                  |                 | 2               |                          | I ,ND |
| 4252           | 349 | 81/12/15                  | 0817:30                  | 0817:55                 | 115             | 96                  |                 | 2               |                          |       |
| 4253           | 349 | 81/12/15                  | 1133:45                  | 1135:50                 | 281             | 119                 | 5120            | 2               | 143, 3                   |       |
| 4254           | 349 | 81/12/15                  | 1625:35                  | 1626:25                 | 198             | 65                  |                 | 2               |                          |       |
| 4255           | 349 | 81/12/15                  | 1944:30                  | 1946:30                 | 765             | 1193                | 1.42E+05        | 5               | 143, 4                   | M ,EN |
| 4256           | 350 | 81/12/16                  | 1250:55                  | 1251:50                 | 160             | 71                  |                 | 3               |                          |       |
| 4257           | 350 | 81/12/16                  | 1429:50                  | 1429:55                 | 170             | 88                  |                 | 2               |                          |       |
| 6887           | 350 | 81/12/16                  | 1558:13                  | 1558:32                 | 47              | 71                  |                 | 2               |                          | I     |
| 6888           | 350 | 81/12/16                  | 1615:12                  | 1615:53                 | 86              | 65                  |                 | 2               |                          | I     |
| 4258           | 350 | 81/12/16                  | 1618:11                  | 1619:49                 | 421             | 185                 | 20661           | 2               | 215, 7                   | EG    |
| 6889           | 352 | 81/12/18                  | 1541:45                  | 1542:09                 | 59              | 80                  |                 | 2               |                          | I     |
| 4259           | 354 | 81/12/20                  | 1429:05                  | 1430:30                 | 185             | 68                  |                 | 2               |                          |       |
| 4260           | 355 | 81/12/21                  | 1236:00                  | 1237:00                 | 185             | 68                  |                 | 2               |                          |       |
| 6893           | 361 | 81/12/27                  | 0908:07                  | 0908:32                 | 129             | 198                 | 4197            | 2               | 215, 12                  | I     |
| 4292           | 362 | 81/12/28                  | 1826:25                  | 1827:50                 | 155             | 92                  |                 | 2               |                          |       |
| 4293           | 364 | 81/12/30                  | 0823:40                  | 0824:15                 | 70              | 61                  |                 | 2               |                          |       |
| 4294           | 365 | 81/12/31                  | 1755:35                  | 1755:45                 | 21              | 160                 | 678             | 3               | 144, 4                   |       |
| 6895           | 365 | 81/12/31                  | 1916:24                  | 1916:47                 | 117             | 125                 | 2523            | 2               | 215, 13                  | I ,ND |
| 6896           | 365 | 81/12/31                  | 1921:43                  | 1922:35                 | 314             | 120                 | 6581            | 2               | 215, 13                  | I ,ND |

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4295           | 1   | 82/01/01                  | 0055:00                  | 0057:05                 | 199             | 2404                | 1.71E+05        | 9               | 144, 5                   | EW    |
| 6942           | 1   | 82/01/01                  | 1643:15                  | 1643:41                 | 61              | 94                  |                 | 2               |                          | I     |
| 6943           | 1   | 82/01/01                  | 2213:16                  | 2214:23                 | 153             | 60                  |                 | 2               |                          | I     |
| 6944           | 1   | 82/01/01                  | 2348:26                  | 2349:39                 | 164             | 53                  |                 | 2               |                          | I     |
| 6945           | 2   | 82/01/02                  | 0043:54                  | 0044:51                 | 100             | 107                 | 2570            | 2               | 216, 14                  | I     |
| 6571           | 2   | 82/01/02                  | 0609:42                  | 0611:09                 | 2042            | 5363                | 7.75E+05        | 12              | 207, 9                   | M ,I  |
| 4296           | 2   | 82/01/02                  | 2254:35                  | 2255:15                 | 70              | 61                  |                 | 2               |                          |       |
| 6757           | 3   | 82/01/03                  | 0011:51                  | 0015:16                 | 1076            | 262                 | 70741           | 3               | 212, 4                   | I     |
| 4297           | 3   | 82/01/03                  | 0639:45                  | 0643:10                 | 363             | 85                  | 5254            | 2               | 144, 6                   |       |
| 6960           | 4   | 82/01/04                  | 0124:49                  | 0125:26                 | 82              | 83                  |                 | 2               |                          | I ,ND |
| 4298           | 7   | 82/01/07                  | 0232:25                  | 0232:45                 | 190             | 72                  |                 | 2               |                          |       |
| 4308           | 7   | 82/01/07                  | 1211:30                  | 1217:45                 | 580             | 88                  | 6065            | 2               | 144, 10                  |       |
| 4309           | 7   | 82/01/07                  | 1937:40                  | 1938:55                 | 263             | 421                 | 19215           | 4               | 144, 11                  |       |
| 4310           | 8   | 82/01/08                  | 0020:05                  | 0021:20                 | 130             | 64                  |                 | 3               |                          |       |
| 4311           | 8   | 82/01/08                  | 0024:40                  | 0025:15                 | 125             | 56                  |                 | 2               |                          |       |
| 4312           | 8   | 82/01/08                  | 0156:45                  | 0157:35                 | 155             | 97                  |                 | 5               |                          |       |
| 4313           | 8   | 82/01/08                  | 0201:20                  | 0202:40                 | 384             | 2309                | 54235           | 7               | 144, 12                  | FS    |
| 4314           | 8   | 82/01/08                  | 0322:10                  | 0327:45                 | 627             | 81                  | 6320            | 5               | 144, 13                  | AX    |
| 7079           | 8   | 82/01/08                  | 1017:59                  | 1018:16                 | 42              | 85                  |                 | 2               |                          | I     |
| 4315           | 8   | 82/01/08                  | 1301:00                  | 1301:20                 | 65              | 97                  |                 | 2               |                          |       |
| 7080           | 8   | 82/01/08                  | 1427:01                  | 1428:56                 | 1030            | 655                 | 96878           | 3               | 220, 11                  | I ,ES |
| 7081           | 8   | 82/01/08                  | 1610:39                  | 1611:00                 | 29              | 63                  |                 | 2               |                          | I     |
| 4316           | 8   | 82/01/08                  | 2057:00                  | 2058:25                 | 175             | 82                  |                 | 4               |                          | EW    |
| 4317           | 9   | 82/01/09                  | 0224:40                  | 0225:20                 | 95              | 57                  |                 | 2               |                          | EW    |
| 4318           | 9   | 82/01/09                  | 0529:40                  | 0531:55                 | 190             | 63                  |                 | 2               |                          | EW    |
| 4319           | 9   | 82/01/09                  | 0700:15                  | 0700:35                 | 93              | 125                 | 2124            | 2               | 144, 14                  | EW    |
| 4320           | 9   | 82/01/09                  | 1949:00                  | 1949:25                 | 64              | 136                 | 1658            | 2               | 144, 15                  |       |
| 4321           | 9   | 82/01/09                  | 2039:45                  | 2040:30                 | 110             | 129                 | 3435            | 5               | 144, 16                  |       |
| 4322           | 9   | 82/01/09                  | 2219:20                  | 2221:05                 | 175             | 82                  |                 | 3               |                          | EW    |
| 7095           | 10  | 82/01/10                  | 0132:02                  | 0133:56                 | 437             | 123                 | 12135           | 4               | 220, 16                  | I     |
| 7096           | 10  | 82/01/10                  | 0210:24                  | 0210:35                 | 36              | 63                  |                 | 2               |                          | I     |
| 4323           | 10  | 82/01/10                  | 0831:00                  | 0831:15                 | 95              | 73                  |                 | 2               |                          | EW    |
| 4324           | 10  | 82/01/10                  | 1450:30                  | 1450:40                 | 35              | 68                  |                 | 2               |                          | EW    |
| 4325           | 10  | 82/01/10                  | 2028:20                  | 2040:15                 | 1022            | 209                 | 24177           | 5               | 145, 1                   |       |
| 7106           | 10  | 82/01/10                  | 2209:17                  | 2209:26                 | 40              | 93                  |                 | 2               |                          | I     |
| 4326           | 10  | 82/01/10                  | 2356:05                  | 2356:30                 | 50              | 78                  |                 | 2               |                          |       |
| 4327           | 11  | 82/01/11                  | 0004:20                  | 0004:45                 | 185             | 192                 | 5152            | 2               | 145, 2                   |       |
| 7108           | 11  | 82/01/11                  | 0125:36                  | 0134:23                 | 994             | 685                 | 1.93E+05        | 8               | 221, 3                   | M ,I  |
| 4328           | 11  | 82/01/11                  | 0207:10                  | 0208:20                 | 90              | 63                  |                 | 4               |                          | EN    |
| 4329           | 11  | 82/01/11                  | 0303:25                  | 0303:45                 | 60              | 56                  |                 | 2               |                          |       |
| 4330           | 11  | 82/01/11                  | 0305:30                  | 0305:45                 | 35              | 73                  |                 | 2               |                          |       |
| 4331           | 11  | 82/01/11                  | 0316:05                  | 0316:30                 | 135             | 64                  |                 | 2               |                          |       |
| 4333           | 11  | 82/01/11                  | 0639:35                  | 0639:40                 | 337             | 108                 | 6860            | 2               | 145, 3                   |       |
| 4334           | 12  | 82/01/12                  | 0153:50                  | 0155:45                 | 197             | 69                  |                 | 4               |                          | AX    |
| 4336           | 12  | 82/01/12                  | 2138:25                  | 2145:30                 | 579             | 135                 | 21350           | 7               | 145, 5                   | AX,EW |
| 4337           | 12  | 82/01/12                  | 2219:25                  | 2219:50                 | 30              | 84                  |                 | 2               |                          | EW    |
| 4338           | 12  | 82/01/12                  | 2220:25                  | 2223:05                 | 375             | 84                  | 4519            | 5               | 145, 6                   | AX,EW |
| 4339           | 13  | 82/01/13                  | 2121:00                  | 2125:20                 | 762             | 201                 | 53212           | 7               | 145, 7                   |       |
| 4340           | 13  | 82/01/13                  | 2208:05                  | 2209:45                 | 195             | 71                  |                 | 5               |                          |       |
| 4341           | 14  | 82/01/14                  | 2154:30                  | 2155:20                 | 125             | 69                  |                 | 3               |                          | AX,EW |
| 4342           | 14  | 82/01/14                  | 2332:20                  | 2333:25                 | 145             | 61                  |                 | 3               |                          | AX    |
| 4343           | 15  | 82/01/15                  | 0026:20                  | 0029:05                 | 309             | 87                  | 3527            | 4               | 145, 8                   | AX    |
| 4344           | 15  | 82/01/15                  | 0112:10                  | 0113:45                 | 145             | 69                  |                 | 5               |                          | AX,EW |
| 4345           | 15  | 82/01/15                  | 1211:35                  | 1211:55                 | 30              | 60                  |                 | 2               |                          | EW    |
| 4346           | 15  | 82/01/15                  | 1214:55                  | 1215:00                 | 20              | 57                  |                 | 2               |                          | EW    |
| 4347           | 15  | 82/01/15                  | 2056:50                  | 2059:00                 | 543             | 153                 | 18695           | 5               | 145, 9                   | AX    |
| 7139           | 16  | 82/01/16                  | 0537:14                  | 0537:30                 | 42              | 60                  |                 | 2               |                          | I     |
| 4348           | 16  | 82/01/16                  | 2123:25                  | 2124:15                 | 80              | 65                  |                 | 2               |                          |       |
| 4349           | 17  | 82/01/17                  | 2028:55                  | 2032:10                 | 652             | 114                 | 14648           | 5               | 145, 10                  | AX,EW |
| 4350           | 17  | 82/01/17                  | 2203:15                  | 2204:25                 | 165             | 71                  |                 | 2               |                          | AX    |
| 4351           | 17  | 82/01/17                  | 2253:20                  | 2255:05                 | 185             | 72                  |                 | 2               |                          | AX    |
| 4352           | 17  | 82/01/17                  | 2341:55                  | 2343:35                 | 384             | 146                 | 11663           | 7               | 145, 11                  | AX    |
| 4353           | 18  | 82/01/18                  | 1432:50                  | 1434:45                 | 319             | 99                  | 4760            | 2               | 145, 12                  |       |
| 4354           | 18  | 82/01/18                  | 2238:35                  | 2239:10                 | 170             | 85                  |                 | 4               |                          | AX    |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4355           | 19  | 82/01/19                  | 0927:50                  | 0929:20                 | 168             | 119                 | 2080            | 2               | 145, 13                  |       |
| 4356           | 19  | 82/01/19                  | 1405:10                  | 1406:05                 | 120             | 62                  |                 | 2               |                          |       |
| 4357           | 19  | 82/01/19                  | 1410:45                  | 1411:15                 | 108             | 128                 | 835             | 2               | 145, 14                  |       |
| 4358           | 19  | 82/01/19                  | 1420:35                  | 1421:50                 | 120             | 69                  |                 | 2               |                          |       |
| 4359           | 19  | 82/01/19                  | 1524:55                  | 1525:55                 | 197             | 66                  |                 | 3               |                          |       |
| 4360           | 19  | 82/01/19                  | 1829:35                  | 1830:15                 | 95              | 65                  |                 | 2               |                          |       |
| 4361           | 19  | 82/01/19                  | 2004:40                  | 2006:50                 | 180             | 57                  |                 | 2               |                          |       |
| 4362           | 19  | 82/01/19                  | 2034:10                  | 2035:30                 | 170             | 79                  |                 | 2               |                          |       |
| 4363           | 19  | 82/01/19                  | 2154:40                  | 2155:35                 | 252             | 84                  | 3966            | 2               | 145, 15                  |       |
| 7142           | 20  | 82/01/20                  | 0321:33                  | 0322:48                 | 242             | 90                  | 3859            | 2               | 221, 10                  | I     |
| 4365           | 20  | 82/01/20                  | 1049:10                  | 1050:05                 | 187             | 75                  |                 | 2               |                          |       |
| 4366           | 20  | 82/01/20                  | 2210:00                  | 2212:55                 | 541             | 71                  | 12874           | 4               | 146, 1                   |       |
| 4367           | 21  | 82/01/21                  | 0548:50                  | 0549:10                 | 60              | 105                 | 578             | 2               | 146, 2                   |       |
| 7156           | 21  | 82/01/21                  | 1206:18                  | 1206:38                 | 200             | 61                  |                 | 2               |                          | I     |
| 7157           | 21  | 82/01/21                  | 1240:55                  | 1241:19                 | 63              | 51                  |                 | 2               |                          | I     |
| 4368           | 22  | 82/01/22                  | 1457:35                  | 1457:55                 | 135             | 80                  |                 | 2               |                          |       |
| 4369           | 22  | 82/01/22                  | 1710:30                  | 1711:25                 | 130             | 93                  |                 | 2               |                          |       |
| 4370           | 23  | 82/01/23                  | 2305:40                  | 2306:10                 | 75              | 58                  |                 | 2               |                          |       |
| 7244           | 24  | 82/01/24                  | 0028:59                  | 0029:38                 | 103             | 123                 | 2503            | 2               | 224, 11                  | I     |
| 4371           | 24  | 82/01/24                  | 0152:35                  | 0155:35                 | 696             | 935                 | 1.37E+05        | 4               | 146, 3                   |       |
| 4372           | 24  | 82/01/24                  | 1015:30                  | 1015:55                 | 60              | 83                  |                 | 2               |                          |       |
| 4373           | 24  | 82/01/24                  | 1449:40                  | 1450:30                 | 110             | 84                  |                 | 2               |                          |       |
| 4374           | 24  | 82/01/24                  | 1453:20                  | 1453:40                 | 55              | 59                  |                 | 2               |                          |       |
| 4375           | 24  | 82/01/24                  | 1454:40                  | 1456:15                 | 145             | 66                  |                 | 2               |                          |       |
| 4376           | 24  | 82/01/24                  | 1936:20                  | 1944:45                 | 1188            | 984                 | 3.31E+05        | 5               | 146, 4                   | M, FS |
| 7245           | 24  | 82/01/24                  | 2126:45                  | 2126:55                 | 23              | 53                  |                 | 2               |                          | I     |
| 7246           | 24  | 82/01/24                  | 2246:51                  | 2247:06                 | 67              | 62                  |                 | 2               |                          | I     |
| 4378           | 25  | 82/01/25                  | 1553:15                  | 1554:00                 | 165             | 57                  |                 | 2               |                          |       |
| 4379           | 25  | 82/01/25                  | 1756:30                  | 1756:32                 | 40              | 75                  |                 | 2               |                          |       |
| 4380           | 25  | 82/01/25                  | 1918:35                  | 1919:35                 | 160             | 99                  |                 | 2               |                          |       |
| 7247           | 25  | 82/01/25                  | 2051:39                  | 2052:23                 | 131             | 86                  |                 | 2               |                          | I     |
| 4381           | 26  | 82/01/26                  | 0210:45                  | 0212:20                 | 160             | 69                  |                 | 2               |                          |       |
| 4382           | 26  | 82/01/26                  | 0323:40                  | 0323:55                 | 71              | 60                  |                 | 2               |                          |       |
| 4383           | 26  | 82/01/26                  | 0343:05                  | 0343:15                 | 45              | 104                 | 217             | 5               | 146, 5                   |       |
| 4384           | 26  | 82/01/26                  | 0428:15                  | 0428:25                 | 40              | 96                  |                 | 2               |                          |       |
| 4385           | 26  | 82/01/26                  | 0615:40                  | 0615:55                 | 44              | 119                 | 692             | 4               | 146, 6                   |       |
| 4392           | 26  | 82/01/26                  | 1731:30                  | 1732:10                 | 80              | 96                  |                 | 2               |                          |       |
| 4393           | 26  | 82/01/26                  | 2045:20                  | 2045:30                 | 25              | 80                  |                 | 2               |                          |       |
| 4394           | 26  | 82/01/26                  | 2344:20                  | 2344:35                 | 85              | 66                  |                 | 2               |                          |       |
| 4854           | 27  | 82/01/27                  | 0328:55                  | 0329:10                 | 35              | 65                  |                 | 2               |                          |       |
| 4395           | 27  | 82/01/27                  | 0611:25                  | 0611:40                 | 30              | 80                  |                 | 2               |                          |       |
| 4396           | 27  | 82/01/27                  | 0639:20                  | 0640:25                 | 110             | 61                  |                 | 2               |                          |       |
| 7248           | 27  | 82/01/27                  | 1232:36                  | 1232:46                 | 13              | 69                  |                 | 2               |                          | I     |
| 4398           | 27  | 82/01/27                  | 1410:20                  | 1411:25                 | 195             | 121                 | 3669            | 2               | 146, 8                   |       |
| 4399           | 27  | 82/01/27                  | 1743:30                  | 1743:55                 | 114             | 136                 | 1448            | 2               | 146, 9                   |       |
| 4400           | 27  | 82/01/27                  | 1830:50                  | 1831:05                 | 40              | 51                  |                 | 2               |                          |       |
| 4401           | 27  | 82/01/27                  | 2206:30                  | 2207:15                 | 160             | 81                  |                 | 2               |                          |       |
| 4402           | 27  | 82/01/27                  | 2209:25                  | 2209:55                 | 175             | 83                  |                 | 2               |                          |       |
| 4409           | 28  | 82/01/28                  | 0325:55                  | 0326:40                 | 135             | 79                  |                 | 2               |                          | EW    |
| 4405           | 28  | 82/01/28                  | 0548:00                  | 0548:30                 | 60              | 64                  |                 | 2               |                          | EW    |
| 4403           | 28  | 82/01/28                  | 0713:20                  | 0722:00                 | 1498            | 9763                | 1.02E+06        | 15              | 146, 10                  | M, SA |
| 4404           | 28  | 82/01/28                  | 0748:25                  | 0749:05                 | 160             | 82                  |                 | 2               |                          |       |
| 4406           | 28  | 82/01/28                  | 0938:05                  | 0939:05                 | 246             | 134                 | 5448            | 2               | 146, 11                  |       |
| 4407           | 28  | 82/01/28                  | 1052:45                  | 1052:55                 | 75              | 53                  |                 | 2               |                          |       |
| 4408           | 28  | 82/01/28                  | 1112:40                  | 1113:45                 | 161             | 164                 | 4478            | 2               | 146, 12                  |       |
| 7253           | 28  | 82/01/28                  | 1654:38                  | 1655:45                 | 129             | 62                  |                 | 2               |                          | I     |
| 4410           | 28  | 82/01/28                  | 1850:50                  | 1851:25                 | 55              | 83                  |                 | 2               |                          |       |
| 4411           | 29  | 82/01/29                  | 0220:55                  | 0222:50                 | 218             | 126                 | 4786            | 2               | 146, 13                  |       |
| 4412           | 29  | 82/01/29                  | 0228:10                  | 0228:30                 | 25              | 67                  |                 | 2               |                          |       |
| 4413           | 29  | 82/01/29                  | 0234:15                  | 0235:35                 | 743             | 142                 | 11550           | 2               | 146, 13                  |       |
| 4414           | 29  | 82/01/29                  | 0312:40                  | 0313:50                 | 127             | 228                 | 3760            | 3               | 146, 14                  | M     |
| 4415           | 29  | 82/01/29                  | 0354:25                  | 0355:25                 | 127             | 76                  |                 | 2               |                          |       |
| 4416           | 29  | 82/01/29                  | 0357:40                  | 0358:15                 | 55              | 76                  |                 | 2               |                          |       |
| 4417           | 29  | 82/01/29                  | 0427:10                  | 0427:25                 | 30              | 80                  |                 | 2               |                          |       |
| 7254           | 29  | 82/01/29                  | 0726:32                  | 0727:06                 | 63              | 53                  |                 | 2               |                          | I     |
| 7255           | 29  | 82/01/29                  | 0758:54                  | 0759:10                 | 71              | 55                  |                 | 2               |                          | I     |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 4421           | 29  | 82/01/29                  | 1025:05                  | 1026:05                 | 300             | 75                  | 5167            | 2               | 147, 1                   | EW       |
| 4422           | 29  | 82/01/29                  | 1040:10                  | 1048:20                 | 660             | 153                 | 2834            | 2               | 147, 1                   | EW       |
| 4423           | 29  | 82/01/29                  | 1543:35                  | 1544:35                 | 621             | 94                  | 11782           | 3               | 147, 2                   |          |
| 4424           | 29  | 82/01/29                  | 2124:45                  | 2125:15                 | 115             | 93                  |                 | 2               |                          |          |
| 7256           | 29  | 82/01/29                  | 2131:37                  | 2132:23                 | 55              | 65                  |                 | 2               |                          | I ,EG    |
| 7257           | 29  | 82/01/29                  | 2145:15                  | 2145:32                 | 36              | 80                  |                 | 2               |                          | I        |
| 7258           | 29  | 82/01/29                  | 2146:41                  | 2146:46                 | 10              | 69                  |                 | 2               |                          | I        |
| 7259           | 29  | 82/01/29                  | 2148:34                  | 2149:13                 | 105             | 73                  |                 | 2               |                          | I        |
| 7260           | 29  | 82/01/29                  | 2151:38                  | 2152:43                 | 105             | 101                 | 2443            | 2               |                          | I        |
| 7261           | 30  | 82/01/30                  | 0028:50                  | 0031:20                 | 678             | 78                  | 4441            | 2               | 224, 14                  | I        |
| 7262           | 30  | 82/01/30                  | 0045:10                  | 0046:22                 | 590             | 822                 | 45581           | 4               | 224, 14                  | I        |
| 4425           | 30  | 82/01/30                  | 0247:10                  | 0248:50                 | 200             | 75                  |                 | 2               |                          | DG       |
| 7263           | 30  | 82/01/30                  | 0416:46                  | 0417:06                 | 40              | 84                  |                 | 2               |                          | I ,ND    |
| 7264           | 30  | 82/01/30                  | 0419:46                  | 0420:12                 | 44              | 58                  |                 | 2               |                          | I ,ND    |
| 7265           | 30  | 82/01/30                  | 0420:30                  | 0420:50                 | 32              | 57                  |                 | 2               |                          | I ,ND    |
| 4426           | 30  | 82/01/30                  | 0853:50                  | 0854:00                 | 25              | 75                  |                 | 2               |                          | SG       |
| 4427           | 30  | 82/01/30                  | 0959:25                  | 0959:40                 | 20              | 54                  |                 | 2               |                          |          |
| 4428           | 30  | 82/01/30                  | 1001:45                  | 1002:20                 | 65              | 59                  |                 | 2               |                          |          |
| 4429           | 30  | 82/01/30                  | 1036:45                  | 1037:20                 | 60              | 66                  |                 | 2               |                          |          |
| 4430           | 30  | 82/01/30                  | 1204:50                  | 1214:35                 | 1784            | 1006                | 1.21E+05        | 7               | 147, 3                   |          |
| 4431           | 30  | 82/01/30                  | 1354:40                  | 1354:50                 | 30              | 64                  |                 | 2               |                          |          |
| 7266           | 30  | 82/01/30                  | 1937:13                  | 1938:07                 | 64              | 73                  |                 | 2               |                          | I        |
| 4432           | 30  | 82/01/30                  | 2125:00                  | 2126:10                 | 190             | 57                  |                 | 2               |                          |          |
| 4433           | 31  | 82/01/31                  | 0014:20                  | 0014:55                 | 902             | 108                 | 11986           | 4               | 147, 4                   | SN       |
| 7267           | 31  | 82/01/31                  | 0349:40                  | 0350:42                 | 88              | 62                  |                 | 2               |                          | I        |
| 7268           | 31  | 82/01/31                  | 0518:23                  | 0518:58                 | 85              | 67                  |                 | 2               |                          | I        |
| 4434           | 31  | 82/01/31                  | 0706:00                  | 0706:25                 | 73              | 375                 | 5351            | 3               | 147, 5                   |          |
| 4435           | 31  | 82/01/31                  | 1123:30                  | 1124:05                 | 75              | 54                  |                 | 2               |                          |          |
| 4436           | 31  | 82/01/31                  | 1315:35                  | 1330:35                 | 2232            | 1819                | 3.26E+05        | 10              | 147, 6                   | FS       |
| 4437           | 31  | 82/01/31                  | 1441:35                  | 1444:05                 | 462             | 74                  | 4648            | 4               | 147, 7                   |          |
| 4438           | 31  | 82/01/31                  | 1745:45                  | 1747:35                 | 193             | 96                  |                 | 2               |                          |          |
| 4439           | 32  | 82/02/01                  | 0030:35                  | 0032:10                 | 772             | 1428                | 68753           | 7               | 147, 8                   | M ,FS    |
| 4440           | 32  | 82/02/01                  | 0338:20                  | 0339:10                 | 130             | 99                  |                 | 2               |                          |          |
| 4441           | 32  | 82/02/01                  | 0458:00                  | 0458:30                 | 150             | 61                  |                 | 2               |                          |          |
| 4442           | 32  | 82/02/01                  | 0518:15                  | 0519:20                 | 337             | 158                 | 5060            | 4               | 147, 9                   |          |
| 4443           | 32  | 82/02/01                  | 0717:45                  | 0718:05                 | 55              | 63                  |                 | 2               |                          |          |
| 7286           | 32  | 82/02/01                  | 0828:38                  | 0829:45                 | 119             | 66                  |                 | 2               | 225, 7                   | I        |
| 4444           | 32  | 82/02/01                  | 0830:51                  | 0834:11                 | 329             | 88                  |                 | 2               | 225, 7                   |          |
| 4445           | 32  | 82/02/01                  | 1249:40                  | 1250:20                 | 45              | 58                  |                 | 2               |                          |          |
| 4446           | 32  | 82/02/01                  | 1251:30                  | 1252:40                 | 180             | 89                  |                 | 4               |                          |          |
| 4447           | 32  | 82/02/01                  | 1418:45                  | 1419:10                 | 1462            | 419                 | 64212           | 5               | 147, 10                  | SN       |
| 4448           | 32  | 82/02/01                  | 1451:20                  | 1451:40                 | 65              | 73                  |                 | 2               | 147, 10                  |          |
| 7287           | 32  | 82/02/01                  | 1736:07                  | 1736:24                 | 46              | 71                  |                 | 2               |                          | I        |
| 4449           | 32  | 82/02/01                  | 1904:35                  | 1914:15                 | 1506            | 92                  | 19720           | 4               | 147, 11                  |          |
| 4450           | 32  | 82/02/01                  | 1935:15                  | 1936:05                 | 285             | 140                 | 4800            | 2               | 147, 11                  |          |
| 4451           | 32  | 82/02/01                  | 2058:05                  | 2059:30                 | 199             | 96                  |                 | 2               |                          |          |
| 4452           | 32  | 82/02/01                  | 2246:05                  | 2248:00                 | 200             | 70                  |                 | 2               |                          |          |
| 4473           | 33  | 82/02/02                  | 0012:00                  | 0012:55                 | 120             | 92                  |                 | 2               |                          |          |
| 4453           | 33  | 82/02/02                  | 0027:25                  | 0028:40                 | 155             | 76                  |                 | 2               |                          |          |
| 4454           | 33  | 82/02/02                  | 0326:15                  | 0327:15                 | 65              | 67                  |                 | 2               |                          |          |
| 4455           | 33  | 82/02/02                  | 0929:35                  | 0930:20                 | 160             | 61                  |                 | 2               |                          |          |
| 4456           | 33  | 82/02/02                  | 1015:10                  | 1015:45                 | 170             | 63                  |                 | 2               |                          |          |
| 4457           | 33  | 82/02/02                  | 1147:05                  | 1149:10                 | 185             | 58                  |                 | 2               |                          |          |
| 4458           | 33  | 82/02/02                  | 1150:10                  | 1151:55                 | 140             | 72                  |                 | 2               |                          |          |
| 4459           | 33  | 82/02/02                  | 1233:15                  | 1234:00                 | 95              | 55                  |                 | 2               |                          |          |
| 4460           | 33  | 82/02/02                  | 1236:00                  | 1237:40                 | 190             | 64                  |                 | 2               |                          |          |
| 4461           | 33  | 82/02/02                  | 1249:55                  | 1250:50                 | 125             | 68                  |                 | 2               |                          |          |
| 7288           | 33  | 82/02/02                  | 1325:01                  | 1325:41                 | 141             | 86                  |                 | 2               |                          | I        |
| 4462           | 33  | 82/02/02                  | 1406:20                  | 1414:45                 | 3335            | 175                 | 2.52E+05        | 15              | 147, 12                  | SN,ND    |
| 4463           | 33  | 82/02/02                  | 1502:25                  | 1505:10                 | 320             | 175                 | 14179           | 5               | 147, 12                  | EN,AX,ND |
| 4464           | 33  | 82/02/02                  | 1547:40                  | 1548:00                 | 792             | 540                 | 31833           | 5               | 147, 13                  | M ,FS    |
| 4465           | 33  | 82/02/02                  | 1639:45                  | 1642:25                 | 304             | 183                 | 11352           | 5               | 147, 14                  | M ,SA,EW |
| 4466           | 33  | 82/02/02                  | 1851:55                  | 1852:15                 | 725             | 365                 | 24868           | 3               | 147, 15                  | SN       |
| 4467           | 33  | 82/02/02                  | 1920:10                  | 1920:30                 | 45              | 54                  |                 | 2               |                          |          |
| 4468           | 33  | 82/02/02                  | 2027:10                  | 2028:45                 | 197             | 74                  |                 | 2               |                          |          |
| 4469           | 33  | 82/02/02                  | 2041:10                  | 2041:45                 | 213             | 100                 | 4300            | 2               | 147, 16                  |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 4470           | 33  | 82/02/02                  | 2219:05                  | 2219:55                 | 173             | 176                 | 3794            | 2               | 148, 1                   |        |
| 4471           | 33  | 82/02/02                  | 2350:15                  | 2351:30                 | 145             | 83                  |                 | 2               |                          |        |
| 4472           | 33  | 82/02/02                  | 2353:05                  | 2354:50                 | 195             | 74                  |                 | 2               |                          |        |
| 4474           | 34  | 82/02/03                  | 0112:26                  | 0114:45                 | 2236            | 4864                | 1.86E+06        | 15              | 148, 2                   | M, SN  |
| 7292           | 34  | 82/02/03                  | 0311:29                  | 0312:20                 | 77              | 58                  |                 | 2               |                          | I      |
| 4475           | 34  | 82/02/03                  | 0314:25                  | 0315:30                 | 512             | 1756                | 1.17E+05        | 5               | 148, 3                   | FS     |
| 7293           | 34  | 82/02/03                  | 0333:13                  | 0334:23                 | 135             | 55                  |                 | 2               |                          | I      |
| 4476           | 34  | 82/02/03                  | 0426:00                  | 0427:10                 | 150             | 84                  |                 | 2               |                          |        |
| 4477           | 34  | 82/02/03                  | 0621:25                  | 0622:05                 | 75              | 61                  |                 | 2               |                          | EW     |
| 4478           | 34  | 82/02/03                  | 0626:30                  | 0631:20                 | 444             | 108                 | 6093            | 2               | 148, 4                   | EW     |
| 4479           | 34  | 82/02/03                  | 0814:00                  | 0816:15                 | 1179            | 105                 | 6805            | 2               | 148, 5                   |        |
| 4480           | 34  | 82/02/03                  | 0908:20                  | 0910:00                 | 402             | 174                 | 16705           | 2               | 148, 6                   | SN     |
| 4481           | 34  | 82/02/03                  | 0929:35                  | 0934:25                 | 529             | 212                 | 13962           | 3               | 148, 6                   | M      |
| 4482           | 34  | 82/02/03                  | 1006:05                  | 1006:35                 | 100             | 73                  |                 | 2               |                          |        |
| 4483           | 34  | 82/02/03                  | 1046:50                  | 1047:10                 | 180             | 68                  |                 | 2               |                          |        |
| 4484           | 34  | 82/02/03                  | 1315:30                  | 1318:10                 | 201             | 784                 | 28791           | 3               | 148, 8                   |        |
| 4485           | 34  | 82/02/03                  | 1418:25                  | 1418:45                 | 195             | 73                  |                 | 2               |                          |        |
| 4486           | 34  | 82/02/03                  | 1422:45                  | 1424:35                 | 150             | 55                  |                 | 2               |                          |        |
| 4487           | 34  | 82/02/03                  | 1425:25                  | 1426:15                 | 120             | 55                  |                 | 2               |                          |        |
| 4488           | 34  | 82/02/03                  | 1704:00                  | 1704:25                 | 186             | 90                  |                 | 2               |                          | SN     |
| 4489           | 34  | 82/02/03                  | 1851:50                  | 1852:00                 | 48              | 489                 | 3690            | 3               | 148, 9                   | M      |
| 4490           | 34  | 82/02/03                  | 2020:55                  | 2023:10                 | 791             | 1610                | 3.11E+05        | 6               | 148, 11                  | M      |
| 4491           | 34  | 82/02/03                  | 2041:35                  | 2042:20                 | 509             | 494                 | 30614           | 5               | 148, 11                  |        |
| 4492           | 34  | 82/02/03                  | 2326:20                  | 2327:40                 | 197             | 73                  |                 | 2               |                          |        |
| 4493           | 35  | 82/02/04                  | 0108:45                  | 0109:45                 | 80              | 76                  |                 | 2               |                          | EW     |
| 4494           | 35  | 82/02/04                  | 0602:55                  | 0610:05                 | 652             | 70                  | 13687           | 2               | 148, 12                  |        |
| 4495           | 35  | 82/02/04                  | 0634:10                  | 0636:40                 | 160             | 63                  |                 | 2               |                          |        |
| 4496           | 35  | 82/02/04                  | 0740:00                  | 0740:40                 | 60              | 53                  |                 | 2               |                          |        |
| 4497           | 35  | 82/02/04                  | 0753:40                  | 0754:40                 | 155             | 68                  |                 | 2               |                          |        |
| 4498           | 35  | 82/02/04                  | 0757:25                  | 0757:55                 | 40              | 52                  |                 | 2               |                          |        |
| 4499           | 35  | 82/02/04                  | 0759:50                  | 0800:30                 | 191             | 72                  |                 | 2               |                          |        |
| 4500           | 35  | 82/02/04                  | 0924:00                  | 0924:45                 | 60              | 66                  |                 | 2               |                          |        |
| 4501           | 35  | 82/02/04                  | 0932:40                  | 0933:00                 | 113             | 173                 | 2167            | 2               | 148, 13                  |        |
| 4502           | 35  | 82/02/04                  | 1030:40                  | 1031:00                 | 52              | 117                 | 770             | 4               | 148, 14                  |        |
| 4503           | 35  | 82/02/04                  | 1236:15                  | 1237:30                 | 105             | 93                  |                 | 2               |                          |        |
| 4504           | 35  | 82/02/04                  | 1254:35                  | 1255:25                 | 185             | 71                  |                 | 2               |                          |        |
| 4505           | 35  | 82/02/04                  | 1300:00                  | 1300:35                 | 70              | 90                  |                 | 2               |                          |        |
| 4506           | 35  | 82/02/04                  | 1341:05                  | 1341:20                 | 640             | 223                 | 22510           | 2               | 148, 15                  | SN, DG |
| 4507           | 35  | 82/02/04                  | 1355:45                  | 1356:40                 | 80              | 57                  |                 | 2               |                          |        |
| 4508           | 35  | 82/02/04                  | 1359:55                  | 1402:35                 | 198             | 56                  |                 | 2               |                          |        |
| 4509           | 35  | 82/02/04                  | 1408:35                  | 1408:55                 | 65              | 58                  |                 | 2               |                          |        |
| 4510           | 35  | 82/02/04                  | 1410:55                  | 1411:45                 | 85              | 81                  |                 | 2               |                          |        |
| 4511           | 35  | 82/02/04                  | 1523:30                  | 1524:25                 | 170             | 62                  |                 | 2               |                          |        |
| 4512           | 35  | 82/02/04                  | 1538:55                  | 1541:45                 | 309             | 806                 | 41151           | 9               | 149, 1                   |        |
| 4513           | 35  | 82/02/04                  | 1655:30                  | 1656:20                 | 75              | 88                  |                 | 2               |                          |        |
| 4514           | 35  | 82/02/04                  | 1658:40                  | 1659:30                 | 76              | 104                 | 670             | 2               | 149, 2                   |        |
| 4515           | 35  | 82/02/04                  | 1715:25                  | 1716:20                 | 96              | 122                 | 2530            | 2               | 149, 3                   | M      |
| 4516           | 35  | 82/02/04                  | 1717:20                  | 1718:55                 | 171             | 135                 | 3595            | 2               | 149, 3                   | M      |
| 4517           | 35  | 82/02/04                  | 1845:35                  | 1846:15                 | 75              | 66                  |                 | 2               |                          |        |
| 4518           | 35  | 82/02/04                  | 1848:15                  | 1848:40                 | 60              | 56                  |                 | 2               |                          |        |
| 4519           | 35  | 82/02/04                  | 1850:40                  | 1852:40                 | 170             | 72                  |                 | 2               |                          |        |
| 4520           | 35  | 82/02/04                  | 1856:05                  | 1857:20                 | 204             | 546                 | 44718           | 5               | 149, 4                   | ES     |
| 4521           | 35  | 82/02/04                  | 2143:00                  | 2143:10                 | 40              | 120                 | 602             | 2               | 149, 5                   |        |
| 4522           | 35  | 82/02/04                  | 2330:05                  | 2330:40                 | 160             | 64                  |                 | 2               |                          |        |
| 4523           | 35  | 82/02/04                  | 2337:25                  | 2338:15                 | 205             | 73                  |                 | 2               |                          |        |
| 4524           | 36  | 82/02/05                  | 0109:35                  | 0110:30                 | 68              | 1617                | 10193           | 6               | 149, 6                   | M, FS  |
| 4527           | 36  | 82/02/05                  | 0128:00                  | 0129:05                 | 180             | 151                 | 5182            | 2               | 149, 8                   | EW     |
| 4525           | 36  | 82/02/05                  | 0248:05                  | 0248:35                 | 55              | 71                  |                 | 4               |                          |        |
| 4526           | 36  | 82/02/05                  | 0306:50                  | 0315:00                 | 924             | 230                 | 14975           | 2               | 149, 7                   |        |
| 4528           | 36  | 82/02/05                  | 0415:35                  | 0415:55                 | 45              | 77                  |                 | 2               |                          | EW     |
| 4529           | 36  | 82/02/05                  | 0558:30                  | 0559:05                 | 110             | 55                  |                 | 2               |                          |        |
| 4530           | 36  | 82/02/05                  | 0608:15                  | 0608:35                 | 185             | 171                 | 2291            | 2               | 149, 9                   |        |
| 4531           | 36  | 82/02/05                  | 0731:30                  | 0733:20                 | 195             | 139                 | 3011            | 2               | 149, 10                  |        |
| 4532           | 36  | 82/02/05                  | 0751:10                  | 0751:45                 | 80              | 87                  |                 | 2               |                          |        |
| 4533           | 36  | 82/02/05                  | 0753:05                  | 0758:35                 | 650             | 90                  | 6688            | 2               | 149, 10                  |        |
| 4534           | 36  | 82/02/05                  | 0903:45                  | 0906:05                 | 1479            | 7230                | 6.74E+05        | 14              | 149, 11                  | M      |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 4535           | 36  | 82/02/05                  | 1045:35                  | 1046:35                 | 164             | 125                 | 2625            | 3               | 149, 12                  |          |
| 4536           | 36  | 82/02/05                  | 1052:05                  | 1053:35                 | 130             | 76                  |                 | 2               |                          |          |
| 4537           | 36  | 82/02/05                  | 1056:40                  | 1057:45                 | 160             | 57                  |                 | 2               |                          |          |
| 4538           | 36  | 82/02/05                  | 1153:00                  | 1154:05                 | 339             | 218                 | 8059            | 2               | 149, 13                  |          |
| 4539           | 36  | 82/02/05                  | 1331:25                  | 1331:40                 | 30              | 54                  |                 | 2               |                          |          |
| 4540           | 36  | 82/02/05                  | 1334:35                  | 1335:05                 | 100             | 64                  |                 | 2               |                          |          |
| 4541           | 36  | 82/02/05                  | 1338:00                  | 1339:40                 | 170             | 86                  |                 | 2               |                          |          |
| 4542           | 36  | 82/02/05                  | 1510:10                  | 1510:40                 | 70              | 69                  |                 | 2               |                          |          |
| 4543           | 36  | 82/02/05                  | 1527:00                  | 1528:15                 | 155             | 75                  |                 | 2               |                          |          |
| 4544           | 36  | 82/02/05                  | 2147:30                  | 2147:55                 | 55              | 89                  |                 | 2               |                          |          |
| 4545           | 37  | 82/02/06                  | 0107:40                  | 0107:55                 | 69              | 70                  |                 | 2               |                          |          |
| 4546           | 37  | 82/02/06                  | 0258:40                  | 0259:05                 | 124             | 135                 | 5938            | 2               | 149, 14                  |          |
| 4547           | 37  | 82/02/06                  | 0302:00                  | 0302:15                 | 40              | 90                  |                 | 2               | 129, 14                  | EW       |
| 4548           | 37  | 82/02/06                  | 0355:35                  | 0356:00                 | 49              | 124                 | 1195            | 2               | 149, 15                  |          |
| 4549           | 37  | 82/02/06                  | 0359:00                  | 0359:25                 | 44              | 178                 | 1112            | 2               | 149, 15                  |          |
| 4550           | 37  | 82/02/06                  | 0425:00                  | 0425:55                 | 222             | 228                 | 5334            | 3               | 149, 16                  |          |
| 4551           | 37  | 82/02/06                  | 0432:20                  | 0432:50                 | 90              | 61                  |                 | 2               |                          |          |
| 4552           | 37  | 82/02/06                  | 0520:45                  | 0521:00                 | 110             | 92                  |                 | 3               |                          |          |
| 4553           | 37  | 82/02/06                  | 0559:05                  | 0601:25                 | 538             | 122                 | 11438           | 2               | 150, 1                   |          |
| 4554           | 37  | 82/02/06                  | 0608:45                  | 0610:45                 | 365             | 186                 | 7431            | 3               | 150, 1                   |          |
| 4555           | 37  | 82/02/06                  | 0748:00                  | 0751:25                 | 258             | 78                  | 1553            | 2               | 150, 2                   | EW       |
| 4556           | 37  | 82/02/06                  | 0902:50                  | 0903:05                 | 40              | 58                  |                 | 2               |                          |          |
| 4557           | 37  | 82/02/06                  | 1009:05                  | 1009:45                 | 110             | 54                  |                 | 2               |                          |          |
| 4558           | 37  | 82/02/06                  | 1145:05                  | 1145:15                 | 18              | 120                 | 360             | 3               | 150, 3                   |          |
| 4559           | 37  | 82/02/06                  | 1223:50                  | 1224:40                 | 369             | 1143                | 42964           | 5               | 150, 4                   | M ,FS    |
| 4560           | 37  | 82/02/06                  | 1331:15                  | 1334:10                 | 416             | 1606                | 56368           | 6               | 150, 5                   |          |
| 4561           | 37  | 82/02/06                  | 1640:20                  | 1640:45                 | 66              | 298                 | 3650            | 4               | 150, 6                   | M ,FS    |
| 4562           | 37  | 82/02/06                  | 1817:25                  | 1818:20                 | 108             | 236                 | 5682            | 2               | 150, 8                   | EG       |
| 4563           | 37  | 82/02/06                  | 1948:15                  | 1948:35                 | 47              | 406                 | 3388            | 3               | 150, 9                   | M ,EW    |
| 4564           | 37  | 82/02/06                  | 1959:20                  | 1959:25                 | 35              | 91                  |                 | 2               | 150, 9                   |          |
| 4565           | 37  | 82/02/06                  | 2004:15                  | 2006:25                 | 159             | 201                 | 1784            | 3               | 150, 9                   | EW       |
| 4641           | 37  | 82/02/06                  | 2110:50                  | 2114:45                 | 789             | 91                  | 9060            | 2               | 152, 12                  | SN       |
| 4566           | 37  | 82/02/06                  | 2130:20                  | 2130:50                 | 45              | 90                  |                 | 2               |                          |          |
| 4567           | 37  | 82/02/06                  | 2139:45                  | 2141:05                 | 155             | 65                  |                 | 2               |                          |          |
| 4568           | 38  | 82/02/07                  | 0030:35                  | 0034:00                 | 647             | 133                 | 3980            | 2               | 150, 10                  |          |
| 4569           | 38  | 82/02/07                  | 0043:05                  | 0043:50                 | 75              | 60                  |                 | 2               |                          |          |
| 4570           | 38  | 82/02/07                  | 0103:25                  | 0103:45                 | 55              | 82                  |                 | 3               |                          | EW       |
| 4571           | 38  | 82/02/07                  | 0222:05                  | 0222:35                 | 270             | 77                  | 1467            | 2               | 150, 11                  |          |
| 4572           | 38  | 82/02/07                  | 0534:35                  | 0535:20                 | 110             | 53                  |                 | 2               |                          |          |
| 4573           | 38  | 82/02/07                  | 0544:15                  | 0544:50                 | 58              | 122                 | 614             | 2               | 150, 12                  |          |
| 4574           | 38  | 82/02/07                  | 0643:35                  | 0644:30                 | 195             | 58                  |                 | 4               |                          |          |
| 4575           | 38  | 82/02/07                  | 0650:55                  | 0652:05                 | 130             | 56                  |                 | 2               |                          |          |
| 4576           | 38  | 82/02/07                  | 0825:30                  | 0826:35                 | 70              | 73                  |                 | 2               |                          |          |
| 4577           | 38  | 82/02/07                  | 1036:50                  | 1037:20                 | 52              | 374                 | 1984            | 2               | 150, 13                  |          |
| 4578           | 38  | 82/02/07                  | 1041:55                  | 1043:30                 | 140             | 89                  |                 | 2               |                          |          |
| 4579           | 38  | 82/02/07                  | 1136:45                  | 1137:05                 | 51              | 623                 | 5537            | 6               | 150, 14                  |          |
| 7297           | 38  | 82/02/07                  | 1302:00                  | 1302:45                 | 625             | 192                 | 30188           | 2               | 225, 11                  | I ,SN    |
| 4580           | 38  | 82/02/07                  | 1812:45                  | 1815:50                 | 265             | 175                 | 6395            | 2               | 150, 15                  | ES,EW    |
| 4581           | 38  | 82/02/07                  | 2057:50                  | 2058:15                 | 696             | 2057                | 1.13E+05        | 10              | 150, 16                  | SN       |
| 4582           | 39  | 82/02/08                  | 0011:05                  | 0011:20                 | 45              | 90                  |                 | 2               |                          |          |
| 4583           | 39  | 82/02/08                  | 0029:55                  | 0030:55                 | 230             | 112                 | 3687            | 2               | 264, 14                  |          |
| 4584           | 39  | 82/02/08                  | 0144:50                  | 0148:50                 | 638             | 562                 | 42358           | 3               | 151, 2                   | M        |
| 4585           | 39  | 82/02/08                  | 0228:15                  | 0228:35                 | 140             | 85                  |                 | 2               |                          |          |
| 4586           | 39  | 82/02/08                  | 0241:15                  | 0241:40                 | 55              | 1193                | 28495           | 5               | 151, 3                   |          |
| 4587           | 39  | 82/02/08                  | 0524:05                  | 0525:30                 | 125             | 66                  |                 | 2               |                          |          |
| 4588           | 39  | 82/02/08                  | 0647:55                  | 0652:20                 | 660             | 326                 | 18474           | 4               | 151, 4                   |          |
| 4589           | 39  | 82/02/08                  | 0701:35                  | 0701:55                 | 25              | 79                  |                 | 2               |                          |          |
| 4590           | 39  | 82/02/08                  | 0710:45                  | 0711:15                 | 45              | 166                 | 2290            | 3               | 151, 4                   |          |
| 4591           | 39  | 82/02/08                  | 0712:45                  | 0714:10                 | 189             | 275                 | 7321            | 3               | 151, 4                   |          |
| 7298           | 39  | 82/02/08                  | 0804:00                  | 0805:26                 | 432             | 4600                | 1.23E+05        | 7               | 225, 12                  | M ,I ,FS |
| 7299           | 39  | 82/02/08                  | 0812:59                  | 0813:12                 | 112             | 71                  |                 | 2               | 225, 12                  | I        |
| 7300           | 39  | 82/02/08                  | 0815:14                  | 0816:08                 | 99              | 49                  |                 | 2               |                          | I        |
| 7301           | 39  | 82/02/08                  | 0836:27                  | 0836:45                 | 184             | 80                  | 2056            | 2               |                          | I        |
| 7302           | 39  | 82/02/08                  | 0950:47                  | 0951:34                 | 64              | 55                  |                 | 2               |                          | I        |
| 7303           | 39  | 82/02/08                  | 1006:24                  | 1017:30                 | 1047            | 86                  | 7092            | 2               | 225, 14                  | I        |
| 7304           | 39  | 82/02/08                  | 1144:01                  | 1144:57                 | 589             | 64                  | 4166            | 4               | 225, 15                  | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS       |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------|
| 4592           | 39  | 82/02/08                  | 1249:55                  | 1250:00                 | 1224            | 31095               | 1.96E+06        | 15              | 151, 5                   | M ,SN,SG    |
| 4593           | 39  | 82/02/08                  | 1520:25                  | 1520:50                 | 40              | 50                  |                 | 2               |                          |             |
| 4594           | 39  | 82/02/08                  | 1605:00                  | 1606:40                 | 198             | 66                  |                 | 2               |                          |             |
| 4595           | 39  | 82/02/08                  | 1657:30                  | 1657:45                 | 51              | 113                 | 1654            | 5               | 151, 6                   | SA          |
| 4596           | 39  | 82/02/08                  | 2120:40                  | 2122:05                 | 124             | 429                 | 8465            | 5               | 151, 7                   | M           |
| 4597           | 39  | 82/02/08                  | 2124:55                  | 2125:05                 | 50              | 89                  |                 | 2               |                          |             |
| 4598           | 39  | 82/02/08                  | 2219:35                  | 2220:25                 | 65              | 63                  |                 | 2               |                          |             |
| 4599           | 40  | 82/02/09                  | 0043:25                  | 0046:10                 | 258             | 140                 | 5061            | 2               | 151, 8                   | ES,EW       |
| 4600           | 40  | 82/02/09                  | 0139:55                  | 0141:30                 | 416             | 386                 | 26177           | 3               | 151, 9                   | M           |
| 4601           | 40  | 82/02/09                  | 0335:25                  | 0339:05                 | 638             | 1043                | 96412           | 3               | 151, 11                  | EW          |
| 4602           | 40  | 82/02/09                  | 0357:55                  | 0402:00                 | 359             | 92                  | 3827            | 2               | 151, 11                  | EW          |
| 4603           | 40  | 82/02/09                  | 0440:10                  | 0441:40                 | 1121            | 430                 | 67328           | 4               | 151, 12                  | SN,DG       |
| 7305           | 40  | 82/02/09                  | 0644:33                  | 0645:16                 | 74              | 63                  |                 | 2               |                          | I           |
| 4604           | 40  | 82/02/09                  | 0710:25                  | 0712:35                 | 239             | 653                 | 1.61E+05        | 4               | 225, 16                  | DG,ND,FS,EW |
| 4605           | 40  | 82/02/09                  | 0925:30                  | 0925:55                 | 559             | 448                 | 48598           | 2               | 151, 14                  | SN          |
| 4606           | 40  | 82/02/09                  | 1103:20                  | 1103:40                 | 45              | 68                  |                 | 2               |                          | EW          |
| 4607           | 40  | 82/02/09                  | 1106:50                  | 1107:35                 | 554             | 232                 | 21299           | 2               | 151, 15                  |             |
| 4608           | 40  | 82/02/09                  | 1411:00                  | 1411:15                 | 1056            | 580                 | 73965           | 7               | 151, 16                  | SN          |
| 4609           | 40  | 82/02/09                  | 2239:50                  | 2241:10                 | 188             | 66                  |                 | 2               |                          |             |
| 4610           | 40  | 82/02/09                  | 2249:25                  | 2250:35                 | 120             | 61                  |                 | 2               |                          |             |
| 4611           | 40  | 82/02/09                  | 2351:20                  | 2351:35                 | 135             | 68                  |                 | 2               |                          |             |
| 4612           | 41  | 82/02/10                  | 0307:45                  | 0309:15                 | 380             | 460                 | 12037           | 4               | 152, 1                   | M           |
| 4613           | 41  | 82/02/10                  | 0349:30                  | 0350:25                 | 90              | 69                  |                 | 2               |                          |             |
| 4614           | 41  | 82/02/10                  | 0634:05                  | 0634:45                 | 170             | 80                  |                 | 2               |                          |             |
| 4615           | 41  | 82/02/10                  | 0750:20                  | 0751:05                 | 115             | 66                  |                 | 2               |                          |             |
| 4616           | 41  | 82/02/10                  | 0816:30                  | 0817:00                 | 50              | 59                  |                 | 2               |                          |             |
| 4617           | 41  | 82/02/10                  | 0944:05                  | 0944:40                 | 244             | 819                 | 25052           | 5               | 152, 3                   | FS          |
| 4618           | 41  | 82/02/10                  | 1050:30                  | 1050:50                 | 40              | 61                  |                 | 2               |                          |             |
| 4619           | 41  | 82/02/10                  | 1124:15                  | 1124:50                 | 142             | 55                  |                 | 2               |                          |             |
| 4620           | 41  | 82/02/10                  | 1140:30                  | 1141:15                 | 100             | 57                  |                 | 2               |                          |             |
| 4621           | 41  | 82/02/10                  | 1309:55                  | 1311:40                 | 198             | 85                  |                 | 2               |                          |             |
| 4623           | 41  | 82/02/10                  | 1411:25                  | 1412:15                 | 225             | 148                 | 6438            | 2               | 152, 4                   |             |
| 4622           | 41  | 82/02/10                  | 1551:50                  | 1552:10                 | 35              | 65                  |                 | 2               |                          |             |
| 4624           | 41  | 82/02/10                  | 1716:55                  | 1717:35                 | 70              | 80                  |                 | 2               |                          |             |
| 4625           | 41  | 82/02/10                  | 1721:10                  | 1721:35                 | 50              | 60                  |                 | 2               |                          |             |
| 4626           | 41  | 82/02/10                  | 1732:15                  | 1732:30                 | 40              | 55                  |                 | 2               |                          |             |
| 4627           | 41  | 82/02/10                  | 1843:40                  | 1851:40                 | 1736            | 1427                | 2.73E+05        | 7               | 152, 5                   | M ,FS       |
| 4628           | 41  | 82/02/10                  | 2153:35                  | 2154:20                 | 134             | 132                 | 2876            | 3               | 152, 6                   |             |
| 4629           | 41  | 82/02/10                  | 2213:40                  | 2214:40                 | 136             | 196                 | 4422            | 3               | 152, 7                   | M           |
| 4630           | 41  | 82/02/10                  | 2216:10                  | 2217:05                 | 110             | 378                 | 5477            | 3               | 152, 7                   | M           |
| 4631           | 41  | 82/02/10                  | 2335:45                  | 2336:50                 | 182             | 59                  |                 | 2               |                          |             |
| 4632           | 42  | 82/02/11                  | 0002:05                  | 0004:10                 | 192             | 115                 | 1200            | 2               | 152, 9                   |             |
| 4633           | 42  | 82/02/11                  | 0141:00                  | 0141:15                 | 100             | 61                  |                 | 2               |                          |             |
| 4634           | 42  | 82/02/11                  | 0143:05                  | 0144:45                 | 120             | 64                  |                 | 2               |                          |             |
| 4635           | 42  | 82/02/11                  | 0315:15                  | 0315:30                 | 90              | 50                  |                 | 2               |                          |             |
| 4636           | 42  | 82/02/11                  | 0317:25                  | 0317:40                 | 140             | 57                  |                 | 2               |                          |             |
| 4637           | 42  | 82/02/11                  | 0728:50                  | 0730:00                 | 130             | 55                  |                 | 2               |                          |             |
| 4638           | 42  | 82/02/11                  | 0916:10                  | 0916:40                 | 60              | 53                  |                 | 2               |                          |             |
| 4639           | 42  | 82/02/11                  | 1209:45                  | 1211:45                 | 326             | 531                 | 18648           | 4               | 152, 10                  | FS          |
| 4640           | 42  | 82/02/11                  | 1344:40                  | 1345:30                 | 144             | 1083                | 12093           | 5               | 153, 11                  |             |
| 4642           | 42  | 82/02/11                  | 1526:20                  | 1526:40                 | 55              | 109                 | 812             | 2               | 152, 13                  |             |
| 4643           | 42  | 82/02/11                  | 1533:10                  | 1533:30                 | 50              | 74                  |                 | 2               |                          |             |
| 4644           | 42  | 82/02/11                  | 1832:45                  | 1834:00                 | 137             | 233                 | 7983            | 2               | 152, 14                  |             |
| 4645           | 42  | 82/02/11                  | 2030:55                  | 2034:45                 | 492             | 426                 | 23056           | 4               | 152, 15                  |             |
| 4646           | 42  | 82/02/11                  | 2323:55                  | 2324:45                 | 85              | 76                  |                 | 2               |                          |             |
| 4647           | 42  | 82/02/11                  | 2351:15                  | 2352:10                 | 857             | 449                 | 13887           | 4               | 152, 16                  |             |
| 4648           | 43  | 82/02/12                  | 0546:10                  | 0546:20                 | 20              | 55                  |                 | 2               |                          |             |
| 4649           | 43  | 82/02/12                  | 0548:40                  | 0550:10                 | 199             | 479                 | 10229           | 4               | 153, 1                   |             |
| 4650           | 43  | 82/02/12                  | 0628:40                  | 0628:55                 | 49              | 131                 | 918             | 2               | 153, 2                   |             |
| 4651           | 43  | 82/02/12                  | 0633:55                  | 0634:40                 | 60              | 62                  |                 | 2               |                          |             |
| 4652           | 43  | 82/02/12                  | 1118:05                  | 1118:15                 | 45              | 121                 | 527             | 2               | 153, 3                   |             |
| 4653           | 43  | 82/02/12                  | 1340:30                  | 1340:50                 | 73              | 107                 | 1468            | 2               | 153, 4                   |             |
| 4654           | 43  | 82/02/12                  | 1701:10                  | 1703:20                 | 355             | 68                  | 4438            | 2               | 153, 5                   | ES          |
| 4655           | 43  | 82/02/12                  | 1831:40                  | 1831:55                 | 50              | 82                  |                 | 2               |                          |             |
| 4656           | 43  | 82/02/12                  | 1834:35                  | 1834:50                 | 30              | 61                  |                 | 2               |                          |             |
| 4657           | 43  | 82/02/12                  | 2127:05                  | 2127:45                 | 109             | 177                 | 2724            | 3               | 153, 6                   |             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------|
| 4658           | 43  | 82/02/12                  | 2130:15                  | 2135:05                 | 1378            | 5966                | 6.29E+05        | 9               | 153, 6                   | M,FS    |
| 4659           | 43  | 82/02/12                  | 2154:45                  | 2157:40                 | 542             | 4691                | 1.56E+05        | 13              | 153, 6                   | FS      |
| 4660           | 44  | 82/02/13                  | 0116:35                  | 0116:55                 | 45              | 74                  |                 | 2               |                          |         |
| 4661           | 44  | 82/02/13                  | 0126:45                  | 0127:15                 | 70              | 57                  |                 | 2               |                          |         |
| 4662           | 44  | 82/02/13                  | 0130:20                  | 0130:45                 | 40              | 52                  |                 | 2               |                          |         |
| 4663           | 44  | 82/02/13                  | 0402:40                  | 0402:55                 | 165             | 80                  |                 | 2               |                          |         |
| 4664           | 44  | 82/02/13                  | 0702:10                  | 0703:05                 | 95              | 60                  |                 | 2               |                          |         |
| 4665           | 44  | 82/02/13                  | 0833:15                  | 0833:55                 | 115             | 56                  |                 | 2               |                          |         |
| 4666           | 44  | 82/02/13                  | 0914:00                  | 0914:45                 | 88              | 111                 | 813             | 2               | 153, 7                   |         |
| 4667           | 44  | 82/02/13                  | 1511:55                  | 1512:40                 | 95              | 68                  |                 | 2               |                          |         |
| 4668           | 44  | 82/02/13                  | 1822:10                  | 1822:40                 | 55              | 53                  |                 | 2               |                          | EW      |
| 4669           | 44  | 82/02/13                  | 1941:00                  | 1941:45                 | 85              | 52                  |                 | 2               |                          |         |
| 5083           | 44  | 82/02/13                  | 1944:55                  | 1945:15                 | 50              | 65                  |                 | 2               |                          | I       |
| 4670           | 44  | 82/02/13                  | 1957:35                  | 1958:10                 | 90              | 202                 | 2380            | 3               | 153, 8                   |         |
| 4671           | 44  | 82/02/13                  | 2012:20                  | 2016:15                 | 291             | 107                 | 4601            | 3               | 153, 9                   | ES      |
| 7307           | 44  | 82/02/13                  | 2115:29                  | 2115:40                 | 28              | 60                  |                 | 2               |                          | I       |
| 4672           | 44  | 82/02/13                  | 2326:05                  | 2332:10                 | 658             | 408                 | 11238           | 4               | 153, 10                  | M       |
| 4673           | 45  | 82/02/14                  | 0036:10                  | 0036:50                 | 75              | 80                  |                 | 2               |                          |         |
| 4674           | 45  | 82/02/14                  | 0100:40                  | 0101:05                 | 70              | 83                  |                 | 2               |                          |         |
| 4675           | 45  | 82/02/14                  | 0119:52                  | 0120:45                 | 176             | 113                 | 1821            | 2               | 153, 11                  |         |
| 4676           | 45  | 82/02/14                  | 0218:00                  | 0219:10                 | 90              | 57                  |                 | 2               |                          | ND      |
| 4677           | 45  | 82/02/14                  | 0219:55                  | 0221:00                 | 175             | 62                  |                 | 2               |                          | ND      |
| 4678           | 45  | 82/02/14                  | 0343:15                  | 0344:00                 | 150             | 4521                | 1.10E+05        | 6               | 153, 12                  | M       |
| 4679           | 45  | 82/02/14                  | 0407:25                  | 0408:15                 | 120             | 229                 | 6714            | 3               | 153, 14                  |         |
| 4680           | 45  | 82/02/14                  | 0540:40                  | 0541:10                 | 55              | 56                  |                 | 2               |                          |         |
| 4681           | 45  | 82/02/14                  | 0547:00                  | 0547:10                 | 70              | 54                  |                 | 2               |                          |         |
| 4682           | 45  | 82/02/14                  | 0556:30                  | 0557:25                 | 120             | 69                  |                 | 2               |                          |         |
| 4683           | 45  | 82/02/14                  | 0607:35                  | 0608:10                 | 35              | 67                  |                 | 2               |                          |         |
| 4684           | 45  | 82/02/14                  | 1036:55                  | 1037:45                 | 90              | 92                  |                 | 2               |                          |         |
| 4685           | 45  | 82/02/14                  | 1053:00                  | 1054:00                 | 90              | 66                  |                 | 2               |                          |         |
| 4686           | 45  | 82/02/14                  | 1402:35                  | 1403:25                 | 108             | 130                 | 3740            | 2               | 153, 15                  | ND      |
| 4687           | 45  | 82/02/14                  | 1945:00                  | 1945:20                 | 35              | 61                  |                 | 2               |                          |         |
| 4688           | 45  | 82/02/14                  | 2309:35                  | 2310:00                 | 53              | 120                 | 792             | 2               | 153, 16                  |         |
| 4689           | 45  | 82/02/14                  | 2310:50                  | 2311:40                 | 103             | 257                 | 2570            | 3               | 153, 16                  |         |
| 4690           | 46  | 82/02/15                  | 0232:55                  | 0233:05                 | 30              | 50                  |                 | 2               |                          |         |
| 7308           | 46  | 82/02/15                  | 0633:28                  | 0634:01                 | 67              | 80                  |                 | 2               |                          | I       |
| 7309           | 46  | 82/02/15                  | 0644:05                  | 0644:40                 | 48              | 64                  |                 | 2               |                          | I       |
| 7310           | 46  | 82/02/15                  | 0719:14                  | 0721:08                 | 319             | 135                 | 8329            | 2               | 226, 3                   | I       |
| 4691           | 46  | 82/02/15                  | 1609:30                  | 1609:55                 | 148             | 56                  |                 | 2               |                          |         |
| 4692           | 46  | 82/02/15                  | 1803:35                  | 1803:40                 | 30              | 61                  |                 | 2               |                          |         |
| 4693           | 46  | 82/02/15                  | 1939:05                  | 1939:25                 | 35              | 95                  |                 | 2               |                          |         |
| 4694           | 47  | 82/02/16                  | 0443:45                  | 0443:50                 | 35              | 47                  |                 | 2               |                          |         |
| 4695           | 47  | 82/02/16                  | 1003:15                  | 1004:50                 | 188             | 176                 | 6969            | 2               | 154, 1                   |         |
| 4696           | 47  | 82/02/16                  | 1513:05                  | 1513:25                 | 30              | 62                  |                 | 2               |                          |         |
| 7320           | 47  | 82/02/16                  | 1557:32                  | 1558:00                 | 34              | 55                  |                 | 2               |                          | I       |
| 4697           | 47  | 82/02/16                  | 1859:25                  | 1859:50                 | 523             | 431                 | 20605           | 3               | 154, 2                   | SN      |
| 4698           | 48  | 82/02/17                  | 0438:20                  | 0438:40                 | 40              | 154                 | 1631            | 2               | 154, 3                   |         |
| 4699           | 48  | 82/02/17                  | 0636:35                  | 0636:50                 | 40              | 64                  |                 | 2               |                          |         |
| 4700           | 48  | 82/02/17                  | 0916:55                  | 0917:10                 | 40              | 51                  |                 | 2               |                          |         |
| 4701           | 48  | 82/02/17                  | 0955:55                  | 1000:25                 | 600             | 245                 | 15347           | 3               | 154, 4                   |         |
| 4702           | 48  | 82/02/17                  | 1904:00                  | 1904:05                 | 20              | 70                  |                 | 2               |                          |         |
| 4703           | 48  | 82/02/17                  | 1915:20                  | 1915:40                 | 65              | 82                  |                 | 3               |                          |         |
| 4704           | 48  | 82/02/17                  | 1943:20                  | 1944:35                 | 162             | 314                 | 14686           | 5               | 154, 5                   | M,SA    |
| 4705           | 48  | 82/02/17                  | 2332:00                  | 2333:15                 | 367             | 233                 | 8581            | 4               | 154, 6                   |         |
| 4706           | 49  | 82/02/18                  | 0320:45                  | 0321:40                 | 158             | 340                 | 8963            | 3               | 154, 7                   |         |
| 4707           | 49  | 82/02/18                  | 0339:45                  | 0340:15                 | 130             | 53                  |                 | 2               |                          |         |
| 4708           | 49  | 82/02/18                  | 0444:00                  | 0446:15                 | 310             | 304                 | 9316            | 4               | 154, 8                   |         |
| 4709           | 49  | 82/02/18                  | 0501:05                  | 0503:00                 | 195             | 63                  |                 | 2               |                          |         |
| 7322           | 49  | 82/02/18                  | 0902:59                  | 0903:44                 | 103             | 1896                | 54637           | 7               | 226, 8                   | M,I,ES  |
| 7323           | 49  | 82/02/18                  | 1302:29                  | 1305:41                 | 594             | 277                 | 17019           | 2               | 226, 9                   | I       |
| 7328           | 49  | 82/02/18                  | 2230:32                  | 2232:28                 | 196             | 53                  |                 | 2               |                          | I       |
| 4710           | 49  | 82/02/18                  | 2331:55                  | 2333:55                 | 728             | 1019                | 2.02E+05        | 4               | 154, 9                   | M,ND,FS |
| 4711           | 50  | 82/02/19                  | 0053:40                  | 0055:05                 | 125             | 47                  |                 | 2               |                          |         |
| 4712           | 50  | 82/02/19                  | 0239:50                  | 0240:05                 | 45              | 57                  |                 | 2               |                          | EW      |
| 4713           | 50  | 82/02/19                  | 0429:40                  | 0429:50                 | 46              | 108                 | 932             | 2               | 154, 11                  |         |
| 4714           | 50  | 82/02/19                  | 0451:45                  | 0453:20                 | 472             | 347                 | 19566           | 3               | 154, 12                  |         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 4715           | 50  | 82/02/19                  | 0555:50                  | 0556:40                 | 151             | 208                 | 6871            | 2               | 154, 13                  | IS       |
| 7329           | 50  | 82/02/19                  | 1336:49                  | 1341:06                 | 505             | 352                 | 22596           | 4               | 226, 10                  | I        |
| 7330           | 50  | 82/02/19                  | 1523:06                  | 1523:28                 | 132             | 80                  |                 | 2               |                          | I        |
| 4716           | 50  | 82/02/19                  | 1652:25                  | 1652:35                 | 20              | 89                  |                 | 2               |                          | EW       |
| 4717           | 51  | 82/02/20                  | 0351:55                  | 0353:45                 | 135             | 71                  |                 | 2               |                          |          |
| 4718           | 51  | 82/02/20                  | 0725:15                  | 0725:35                 | 60              | 71                  |                 | 2               |                          |          |
| 4719           | 51  | 82/02/20                  | 0726:55                  | 0727:40                 | 65              | 69                  |                 | 2               |                          |          |
| 4720           | 51  | 82/02/20                  | 0919:35                  | 0924:45                 | 1003            | 1728                | 2.80E+05        | 6               | 154, 14                  | M ,EN    |
| 4721           | 51  | 82/02/20                  | 1050:10                  | 1051:00                 | 166             | 120                 | 2883            | 2               | 154, 15                  |          |
| 4722           | 51  | 82/02/20                  | 1235:00                  | 1235:15                 | 40              | 77                  |                 | 2               |                          |          |
| 7333           | 51  | 82/02/20                  | 1723:43                  | 1724:13                 | 221             | 1312                | 15695           | 4               | 226, 13                  | M ,I ,FS |
| 7334           | 51  | 82/02/20                  | 1807:41                  | 1807:52                 | 215             | 132                 | 8074            | 3               | 226, 14                  | I        |
| 4723           | 51  | 82/02/20                  | 2158:40                  | 2159:45                 | 181             | 138                 | 3972            | 2               | 154, 16                  | SG,DG    |
| 4724           | 52  | 82/02/21                  | 0028:30                  | 0029:00                 | 75              | 60                  |                 | 2               |                          |          |
| 4725           | 52  | 82/02/21                  | 0122:10                  | 0125:25                 | 311             | 61                  | 2522            | 2               | 155, 1                   |          |
| 4726           | 52  | 82/02/21                  | 1055:00                  | 1055:15                 | 50              | 75                  |                 | 2               |                          |          |
| 4727           | 52  | 82/02/21                  | 1357:30                  | 1357:50                 | 55              | 68                  |                 | 2               |                          |          |
| 4728           | 52  | 82/02/21                  | 1852:15                  | 1852:40                 | 60              | 58                  |                 | 2               |                          |          |
| 4729           | 53  | 82/02/22                  | 0206:25                  | 0207:20                 | 120             | 71                  |                 | 2               |                          |          |
| 4730           | 53  | 82/02/22                  | 0726:10                  | 0726:30                 | 45              | 60                  |                 | 2               |                          |          |
| 4732           | 53  | 82/02/22                  | 1208:40                  | 1209:15                 | 253             | 75                  | 2394            | 2               | 155, 3                   |          |
| 4733           | 54  | 82/02/23                  | 0006:40                  | 0006:55                 | 40              | 51                  |                 | 2               |                          |          |
| 4734           | 54  | 82/02/23                  | 0015:15                  | 0015:45                 | 60              | 74                  |                 | 2               |                          |          |
| 4735           | 54  | 82/02/23                  | 0152:40                  | 0154:58                 | 257             | 63                  | 2559            | 2               | 155, 4                   |          |
| 4736           | 54  | 82/02/23                  | 0312:42                  | 0314:35                 | 560             | 531                 | 39173           | 5               | 155, 5                   | M        |
| 4737           | 54  | 82/02/23                  | 0514:40                  | 0516:27                 | 221             | 188                 | 6518            | 3               | 155, 7                   |          |
| 4738           | 54  | 82/02/23                  | 0530:00                  | 0530:25                 | 70              | 54                  |                 | 2               |                          |          |
| 4739           | 54  | 82/02/23                  | 1746:11                  | 1746:41                 | 127             | 58                  |                 | 2               |                          |          |
| 4740           | 55  | 82/02/24                  | 0045:18                  | 0045:38                 | 45              | 48                  |                 | 2               |                          |          |
| 4741           | 55  | 82/02/24                  | 0330:38                  | 0331:20                 | 273             | 105                 | 2005            | 4               | 155, 8                   |          |
| 4742           | 55  | 82/02/24                  | 0509:05                  | 0509:25                 | 58              | 248                 | 2331            | 5               | 155, 9                   |          |
| 4743           | 55  | 82/02/24                  | 0627:20                  | 0627:21                 | 135             | 148                 | 3643            | 7               | 155, 10                  | SA,AX    |
| 4744           | 55  | 82/02/24                  | 0633:30                  | 0649:31                 | 1903            | 105                 | 43004           | 2               | 155, 10                  |          |
| 4745           | 55  | 82/02/24                  | 1134:10                  | 1135:49                 | 195             | 112                 | 4104            | 2               | 155, 11                  |          |
| 4746           | 55  | 82/02/24                  | 1141:25                  | 1142:19                 | 123             | 59                  |                 | 2               |                          |          |
| 4747           | 55  | 82/02/24                  | 1449:30                  | 1450:25                 | 194             | 96                  |                 | 2               |                          |          |
| 4748           | 55  | 82/02/24                  | 1549:50                  | 1551:40                 | 283             | 168                 | 1.99E+05        | 2               | 253, 11                  | EG,DG,ND |
| 4749           | 55  | 82/02/24                  | 1917:20                  | 1918:15                 | 120             | 79                  |                 | 2               |                          |          |
| 4750           | 55  | 82/02/24                  | 2029:10                  | 2029:40                 | 190             | 76                  |                 | 7               |                          |          |
| 4751           | 56  | 82/02/25                  | 0338:15                  | 0340:50                 | 232             | 119                 | 3141            | 2               | 155, 13                  |          |
| 4752           | 56  | 82/02/25                  | 0514:20                  | 0517:05                 | 264             | 125                 | 4281            | 2               | 155, 14                  | EN       |
| 7339           | 56  | 82/02/25                  | 0621:40                  | 0622:00                 | 89              | 59                  |                 | 2               |                          | I        |
| 7340           | 56  | 82/02/25                  | 0623:28                  | 0624:02                 | 47              | 72                  |                 | 2               |                          | I        |
| 4753           | 56  | 82/02/25                  | 0947:30                  | 0949:40                 | 180             | 75                  |                 | 2               |                          | DG       |
| 4754           | 56  | 82/02/25                  | 0951:20                  | 0951:50                 | 60              | 67                  |                 | 2               |                          |          |
| 4755           | 56  | 82/02/25                  | 0952:35                  | 0954:35                 | 145             | 86                  |                 | 2               |                          |          |
| 4756           | 56  | 82/02/25                  | 1438:40                  | 1439:20                 | 95              | 143                 | 2399            | 3               | 155, 15                  |          |
| 4757           | 56  | 82/02/25                  | 1442:20                  | 1442:50                 | 206             | 111                 | 2125            | 2               | 155, 15                  |          |
| 4758           | 56  | 82/02/25                  | 1605:20                  | 1606:40                 | 175             | 152                 | 4651            | 2               | 155, 16                  |          |
| 7344           | 56  | 82/02/25                  | 1852:16                  | 1852:40                 | 68              | 138                 | 1867            | 2               | 227, 2                   | I        |
| 7345           | 56  | 82/02/25                  | 1906:43                  | 1906:54                 | 108             | 79                  |                 | 2               |                          | I        |
| 7346           | 56  | 82/02/25                  | 1919:17                  | 1919:29                 | 15              | 98                  |                 | 2               |                          | I        |
| 4759           | 56  | 82/02/25                  | 2017:15                  | 2017:50                 | 121             | 111                 | 2602            | 5               | 156, 1                   |          |
| 4760           | 56  | 82/02/25                  | 2151:25                  | 2152:35                 | 251             | 1028                | 59603           | 9               | 156, 2                   | M        |
| 4761           | 56  | 82/02/25                  | 2236:30                  | 2237:15                 | 110             | 86                  |                 | 7               |                          |          |
| 4762           | 57  | 82/02/26                  | 0016:05                  | 0018:50                 | 342             | 189                 | 21656           | 14              | 156, 4                   | AX       |
| 4763           | 57  | 82/02/26                  | 0306:10                  | 0319:40                 | 1425            | 167                 | 45574           | 2               | 156, 3                   | EN       |
| 4764           | 57  | 82/02/26                  | 0424:55                  | 0425:40                 | 120             | 100                 | 1933            | 2               |                          |          |
| 4765           | 57  | 82/02/26                  | 0924:30                  | 0924:50                 | 110             | 89                  |                 | 2               |                          |          |
| 4766           | 57  | 82/02/26                  | 1413:50                  | 1414:18                 | 40              | 60                  |                 | 2               |                          |          |
| 4767           | 57  | 82/02/26                  | 1516:50                  | 1519:20                 | 371             | 255                 | 9012            | 5               | 156, 6                   | M ,FS    |
| 4768           | 57  | 82/02/26                  | 1724:35                  | 1725:24                 | 123             | 69                  |                 | 2               |                          |          |
| 4769           | 57  | 82/02/26                  | 1735:30                  | 1736:24                 | 109             | 326                 | 4730            | 5               | 156, 7                   | M ,FS    |
| 4770           | 57  | 82/02/26                  | 2002:50                  | 2004:20                 | 295             | 84                  |                 | 5               |                          |          |
| 4774           | 57  | 82/02/26                  | 2029:00                  | 2029:25                 | 85              | 75                  |                 | 2               |                          |          |
| 4771           | 57  | 82/02/26                  | 2048:50                  | 2049:30                 | 55              | 75                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------|
| 4772           | 57  | 82/02/26                  | 2136:05                  | 2139:40                 | 716             | 190                 | 38762           | 6               | 156, 8                   |         |
| 4776           | 57  | 82/02/26                  | 2202:25                  | 2202:40                 | 65              | 59                  |                 | 2               |                          |         |
| 4773           | 57  | 82/02/26                  | 2312:20                  | 2312:30                 | 60              | 54                  |                 | 2               |                          |         |
| 4777           | 57  | 82/02/26                  | 2350:00                  | 2350:45                 | 145             | 59                  |                 | 5               |                          |         |
| 4778           | 58  | 82/02/27                  | 0434:35                  | 0434:50                 | 55              | 85                  |                 | 2               |                          |         |
| 6300           | 58  | 82/02/27                  | 0444:06                  | 0444:20                 | 56              | 61                  |                 | 2               |                          |         |
| 4775           | 58  | 82/02/27                  | 2121:55                  | 2125:00                 | 552             | 70                  | 5953            | 4               | 156, 9                   |         |
| 7321           | 58  | 82/02/27                  | 2214:54                  | 2215:00                 | 30              | 63                  |                 | 2               |                          | I       |
| 4779           | 59  | 82/02/28                  | 1940:45                  | 1941:08                 | 67              | 59                  |                 | 2               |                          |         |
| 4780           | 60  | 82/03/01                  | 0112:58                  | 0113:05                 | 18              | 75                  |                 | 2               |                          |         |
| 4781           | 60  | 82/03/01                  | 0235:54                  | 0239:08                 | 301             | 418                 | 15700           | 14              | 156, 10                  |         |
| 4782           | 60  | 82/03/01                  | 0535:42                  | 0537:05                 | 114             | 70                  |                 | 2               |                          |         |
| 7347           | 60  | 82/03/01                  | 1040:22                  | 1040:54                 | 43              | 69                  |                 | 2               |                          | I       |
| 4783           | 60  | 82/03/01                  | 1634:50                  | 1636:05                 | 218             | 104                 | 5271            | 4               | 156, 11                  |         |
| 4784           | 60  | 82/03/01                  | 1917:19                  | 1917:43                 | 44              | 60                  |                 | 2               |                          |         |
| 4785           | 60  | 82/03/01                  | 1924:08                  | 1924:35                 | 47              | 408                 | 3288            | 5               | 156, 12                  | M       |
| 4786           | 60  | 82/03/01                  | 2053:00                  | 2054:29                 | 703             | 153                 | 14757           | 5               | 156, 14                  |         |
| 4787           | 60  | 82/03/01                  | 2137:00                  | 2138:54                 | 151             | 78                  |                 | 4               |                          |         |
| 4788           | 60  | 82/03/01                  | 2228:44                  | 2237:55                 | 804             | 751                 | 1.35E+05        | 6               | 156, 15                  | M       |
| 4789           | 61  | 82/03/02                  | 0001:34                  | 0020:40                 | 1585            | 160                 | 40684           | 4               | 157, 1                   |         |
| 4790           | 61  | 82/03/02                  | 0039:56                  | 0047:35                 | 1365            | 260                 | 1.50E+05        | 7               | 157, 1                   | EN      |
| 4791           | 61  | 82/03/02                  | 0823:30                  | 0824:15                 | 85              | 74                  |                 | 2               |                          |         |
| 4792           | 61  | 82/03/02                  | 1510:17                  | 1510:25                 | 15              | 70                  |                 | 2               |                          |         |
| 4793           | 61  | 82/03/02                  | 1558:38                  | 1600:30                 | 629             | 135                 | 9568            | 2               | 157, 2                   |         |
| 4794           | 61  | 82/03/02                  | 1644:12                  | 1645:10                 | 106             | 64                  |                 | 2               |                          |         |
| 4795           | 61  | 82/03/02                  | 2120:00                  | 2120:45                 | 140             | 64                  |                 | 5               |                          |         |
| 4796           | 61  | 82/03/02                  | 2257:25                  | 2259:15                 | 182             | 60                  |                 | 4               |                          |         |
| 4797           | 61  | 82/03/02                  | 2303:49                  | 2305:18                 | 205             | 74                  |                 | 5               |                          |         |
| 4798           | 62  | 82/03/03                  | 0124:24                  | 0124:25                 | 277             | 256                 | 13713           | 9               | 157, 3                   | SA,AX   |
| 4799           | 62  | 82/03/03                  | 1130:55                  | 1133:05                 | 297             | 105                 | 2934            | 2               | 157, 4                   |         |
| 4800           | 63  | 82/03/04                  | 0145:14                  | 0147:08                 | 282             | 170                 | 10343           | 2               | 157, 5                   |         |
| 4801           | 63  | 82/03/04                  | 1303:30                  | 1303:40                 | 20              | 58                  |                 | 2               |                          |         |
| 4802           | 63  | 82/03/04                  | 1420:40                  | 1420:55                 | 74              | 213                 | 213             | 3               | 157, 6                   |         |
| 4803           | 63  | 82/03/04                  | 2059:14                  | 2059:30                 | 80              | 183                 | 1629            | 2               | 157                      |         |
| 4804           | 63  | 82/03/04                  | 2214:05                  | 2215:12                 | 172             | 163                 | 4395            | 2               | 157, 7                   |         |
| 4805           | 63  | 82/03/04                  | 2241:50                  | 2242:11                 | 50              | 63                  |                 | 2               | 157, 8                   |         |
| 7348           | 63  | 82/03/04                  | 2320:56                  | 2321:49                 | 98              | 57                  |                 | 5               |                          | I       |
| 4806           | 64  | 82/03/05                  | 0141:25                  | 0141:58                 | 122             | 61                  |                 | 2               |                          |         |
| 4807           | 64  | 82/03/05                  | 0241:26                  | 0243:34                 | 1032            | 1481                | 1.54E+05        | 5               | 157, 9                   | M       |
| 4808           | 64  | 82/03/05                  | 0506:18                  | 0506:50                 | 60              | 60                  |                 | 2               |                          |         |
| 4809           | 64  | 82/03/05                  | 0640:52                  | 0641:52                 | 77              | 501                 | 11735           | 5               | 157, 10                  | M,EN    |
| 4810           | 64  | 82/03/05                  | 1102:06                  | 1102:17                 | 50              | 64                  |                 | 2               |                          |         |
| 4814           | 64  | 82/03/05                  | 1828:15                  | 1828:50                 | 120             | 61                  |                 | 2               |                          |         |
| 4815           | 64  | 82/03/05                  | 1854:35                  | 1854:55                 | 90              | 86                  |                 | 2               |                          |         |
| 4813           | 64  | 82/03/05                  | 1902:35                  | 1903:07                 | 199             | 60                  |                 | 2               |                          |         |
| 4816           | 64  | 82/03/05                  | 2001:55                  | 2004:15                 | 190             | 62                  |                 | 2               |                          |         |
| 4817           | 64  | 82/03/05                  | 2040:35                  | 2042:05                 | 140             | 64                  |                 | 5               |                          |         |
| 4818           | 64  | 82/03/05                  | 2053:30                  | 2054:15                 | 73              | 170                 | 3404            | 2               | 157, 11                  |         |
| 4819           | 64  | 82/03/05                  | 2137:50                  | 2139:50                 | 200             | 76                  |                 | 5               |                          |         |
| 4820           | 64  | 82/03/05                  | 2150:35                  | 2151:45                 | 185             | 59                  |                 | 2               |                          |         |
| 4821           | 64  | 82/03/05                  | 2220:05                  | 2221:05                 | 270             | 74                  | 3123            | 2               | 157, 12                  |         |
| 4822           | 65  | 82/03/06                  | 0136:55                  | 0137:10                 | 65              | 90                  |                 | 2               |                          | EW      |
| 4823           | 65  | 82/03/06                  | 0242:45                  | 0243:35                 | 80              | 58                  |                 | 2               |                          | EW      |
| 4824           | 65  | 82/03/06                  | 0803:15                  | 0803:45                 | 38              | 173                 | 1458            | 3               | 157, 13                  |         |
| 4825           | 65  | 82/03/06                  | 1105:25                  | 1105:50                 | 50              | 62                  |                 | 2               |                          |         |
| 4826           | 65  | 82/03/06                  | 1225:00                  | 1225:35                 | 65              | 61                  |                 | 2               |                          |         |
| 4827           | 65  | 82/03/06                  | 2121:23                  | 2123:15                 | 244             | 198                 | 9644            | 5               | 157, 14                  | AX      |
| 4828           | 65  | 82/03/06                  | 2302:24                  | 2304:32                 | 180             | 74                  |                 | 2               |                          |         |
| 4829           | 66  | 82/03/07                  | 0120:05                  | 0120:43                 | 107             | 53                  |                 | 2               |                          |         |
| 4830           | 66  | 82/03/07                  | 0246:24                  | 0304:46                 | 1123            | 2833                | 2.59E+05        | 10              | 157, 15                  | M,EN,FS |
| 4831           | 66  | 82/03/07                  | 0405:40                  | 0420:35                 | 2069            | 289                 | 2.50E+05        | 7               | 157, 16                  | EN      |
| 4832           | 66  | 82/03/07                  | 0614:13                  | 0614:20                 | 31              | 62                  |                 | 2               |                          |         |
| 4833           | 66  | 82/03/07                  | 1351:40                  | 1352:32                 | 203             | 1481                | 49262           | 8               | 158, 1                   | M,FS    |
| 4834           | 66  | 82/03/07                  | 1715:49                  | 1716:38                 | 76              | 70                  |                 | 2               |                          |         |
| 4835           | 66  | 82/03/07                  | 1958:42                  | 1958:51                 | 50              | 75                  |                 | 2               |                          |         |
| 4836           | 66  | 82/03/07                  | 2002:00                  | 2002:22                 | 160             | 66                  |                 | 2               |                          |         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4837           | 66  | 82/03/07                  | 2010:48                  | 2011:46                 | 148             | 97                  |                 | 4               |                          | AX    |
| 4838           | 67  | 82/03/08                  | 0043:45                  | 0044:15                 | 66              | 56                  |                 | 2               |                          |       |
| 4839           | 67  | 82/03/08                  | 0358:27                  | 0358:51                 | 40              | 52                  |                 | 2               |                          |       |
| 4840           | 67  | 82/03/08                  | 1303:56                  | 1307:26                 | 324             | 111                 | 6585            | 2               | 158, 3                   |       |
| 4841           | 67  | 82/03/08                  | 1312:20                  | 1313:32                 | 160             | 87                  |                 | 2               |                          |       |
| 4842           | 67  | 82/03/08                  | 1940:44                  | 1947:12                 | 631             | 206                 | 27624           | 3               | 158, 4                   |       |
| 4843           | 67  | 82/03/08                  | 1956:58                  | 2017:38                 | 1267            | 1482                | 2.60E+05        | 7               | 158, 4                   |       |
| 4844           | 68  | 82/03/09                  | 0533:22                  | 0533:49                 | 90              | 62                  |                 | 2               |                          |       |
| 4845           | 68  | 82/03/09                  | 2254:25                  | 2300:50                 | 693             | 132                 | 28720           | 5               | 158, 5                   | AX    |
| 4846           | 68  | 82/03/09                  | 2312:15                  | 2313:55                 | 153             | 122                 | 1090            | 2               | 158, 5                   |       |
| 4847           | 70  | 82/03/11                  | 0254:22                  | 0254:58                 | 98              | 99                  |                 | 2               |                          |       |
| 4848           | 70  | 82/03/11                  | 0613:39                  | 0614:14                 | 44              | 60                  |                 | 2               |                          |       |
| 4849           | 70  | 82/03/11                  | 1557:00                  | 1557:30                 | 45              | 81                  |                 | 2               |                          |       |
| 4850           | 71  | 82/03/12                  | 1241:00                  | 1241:25                 | 110             | 91                  |                 | 2               |                          | EW    |
| 4851           | 72  | 82/03/13                  | 1523:20                  | 1524:00                 | 60              | 58                  |                 | 2               |                          |       |
| 4852           | 73  | 82/03/14                  | 2114:56                  | 2115:04                 | 43              | 163                 | 854             | 4               | 185, 6                   |       |
| 4853           | 74  | 82/03/15                  | 0032:07                  | 0032:54                 | 79              | 58                  |                 | 2               |                          |       |
| 4855           | 74  | 82/03/15                  | 0725:50                  | 0726:20                 | 55              | 60                  |                 | 2               |                          |       |
| 4856           | 74  | 82/03/15                  | 1626:20                  | 1627:05                 | 80              | 66                  |                 | 4               |                          |       |
| 4857           | 74  | 82/03/15                  | 1804:02                  | 1804:40                 | 76              | 62                  |                 | 5               |                          |       |
| 4858           | 75  | 82/03/16                  | 0156:10                  | 0156:33                 | 48              | 220                 | 2008            | 3               | 158, 7                   |       |
| 4859           | 75  | 82/03/16                  | 0809:36                  | 0809:46                 | 58              | 68                  |                 | 2               |                          |       |
| 4860           | 75  | 82/03/16                  | 1118:30                  | 1120:25                 | 180             | 65                  |                 | 2               |                          |       |
| 4861           | 76  | 82/03/17                  | 0153:15                  | 0155:33                 | 184             | 74                  |                 | 2               |                          |       |
| 4865           | 76  | 82/03/17                  | 0957:09                  | 0958:11                 | 62              | 64                  |                 | 2               |                          |       |
| 4866           | 76  | 82/03/17                  | 1010:16                  | 1011:01                 | 98              | 63                  |                 | 2               |                          |       |
| 4862           | 76  | 82/03/17                  | 1107:18                  | 1108:16                 | 119             | 129                 | 2438            | 2               | 158, 8                   |       |
| 4863           | 76  | 82/03/17                  | 1111:31                  | 1117:18                 | 609             | 107                 | 8605            | 2               | 158, 8                   |       |
| 4864           | 76  | 82/03/17                  | 1153:39                  | 1154:24                 | 69              | 55                  |                 | 2               |                          |       |
| 4867           | 76  | 82/03/17                  | 1239:05                  | 1239:30                 | 60              | 100                 | 1186            | 2               |                          |       |
| 4868           | 76  | 82/03/17                  | 1240:15                  | 1241:23                 | 155             | 75                  |                 | 2               |                          |       |
| 4869           | 76  | 82/03/17                  | 1306:25                  | 1306:40                 | 35              | 84                  |                 | 2               |                          |       |
| 4870           | 76  | 82/03/17                  | 1424:27                  | 1424:58                 | 81              | 235                 | 3952            | 4               | 158, 9                   |       |
| 4871           | 76  | 82/03/17                  | 1504:58                  | 1505:07                 | 30              | 75                  |                 | 2               |                          |       |
| 4872           | 76  | 82/03/17                  | 2202:46                  | 2203:03                 | 130             | 155                 | 2968            | 2               | 158, 10                  |       |
| 4873           | 77  | 82/03/18                  | 0816:00                  | 0816:50                 | 171             | 107                 | 3713            | 2               | 158, 11                  |       |
| 4874           | 77  | 82/03/18                  | 1045:05                  | 1045:50                 | 70              | 66                  |                 | 2               |                          |       |
| 7352           | 77  | 82/03/18                  | 1054:01                  | 1054:18                 | 30              | 60                  |                 | 2               |                          |       |
| 4876           | 77  | 82/03/18                  | 1230:40                  | 1231:35                 | 208             | 243                 | 6746            | 2               | 158, 12                  |       |
| 4877           | 77  | 82/03/18                  | 1354:55                  | 1355:15                 | 137             | 279                 | 26420           | 2               | 158, 13                  | SG    |
| 4878           | 77  | 82/03/18                  | 1544:00                  | 1544:45                 | 90              | 62                  |                 | 2               |                          |       |
| 4879           | 77  | 82/03/18                  | 1721:55                  | 1722:45                 | 163             | 109                 | 2528            | 4               | 158, 14                  |       |
| 4880           | 77  | 82/03/18                  | 1741:35                  | 1742:00                 | 55              | 61                  |                 | 2               |                          |       |
| 4881           | 77  | 82/03/18                  | 2040:20                  | 2041:06                 | 94              | 123                 | 1005            | 2               | 158, 15                  | EW    |
| 4882           | 77  | 82/03/18                  | 2042:09                  | 2043:17                 | 123             | 54                  |                 | 2               |                          | EW    |
| 4883           | 77  | 82/03/18                  | 2341:20                  | 2342:25                 | 125             | 56                  |                 | 2               |                          |       |
| 7353           | 78  | 82/03/19                  | 0153:38                  | 0153:49                 | 13              | 68                  |                 | 2               |                          | I     |
| 4884           | 78  | 82/03/19                  | 0419:00                  | 0420:25                 | 170             | 75                  |                 | 2               |                          |       |
| 4885           | 78  | 82/03/19                  | 0435:35                  | 0459:05                 | 1761            | 371                 | 39650           | 3               | 158, 16                  | M     |
| 4886           | 78  | 82/03/19                  | 0918:35                  | 0918:45                 | 30              | 64                  |                 | 2               |                          |       |
| 4887           | 78  | 82/03/19                  | 1253:50                  | 1254:05                 | 70              | 91                  |                 | 2               |                          |       |
| 4888           | 78  | 82/03/19                  | 1424:25                  | 1424:40                 | 50              | 58                  |                 | 2               |                          |       |
| 4889           | 78  | 82/03/19                  | 1532:35                  | 1534:30                 | 1454            | 173                 | 38296           | 2               | 159, 1                   |       |
| 4890           | 78  | 82/03/19                  | 2002:25                  | 2002:44                 | 56              | 60                  |                 | 2               |                          |       |
| 4891           | 78  | 82/03/19                  | 2003:56                  | 2004:16                 | 46              | 167                 | 2201            | 4               | 159, 2                   |       |
| 4892           | 79  | 82/03/20                  | 0102:35                  | 0103:40                 | 170             | 94                  |                 | 2               |                          |       |
| 4893           | 80  | 82/03/21                  | 0404:45                  | 0406:10                 | 195             | 63                  |                 | 2               |                          |       |
| 4894           | 80  | 82/03/21                  | 0744:20                  | 0745:05                 | 214             | 342                 | 6991            | 3               | 159, 3                   |       |
| 4895           | 80  | 82/03/21                  | 0911:35                  | 0914:05                 | 200             | 62                  |                 | 2               |                          |       |
| 4896           | 80  | 82/03/21                  | 1150:20                  | 1150:55                 | 70              | 55                  |                 | 2               |                          |       |
| 4897           | 80  | 82/03/21                  | 1323:00                  | 1325:00                 | 180             | 75                  |                 | 4               |                          |       |
| 4898           | 80  | 82/03/21                  | 1452:55                  | 1453:10                 | 42              | 195                 | 1054            | 3               | 159, 4                   | M     |
| 4899           | 80  | 82/03/21                  | 1815:10                  | 1816:10                 | 73              | 122                 | 1352            | 2               | 159, 6                   |       |
| 4900           | 80  | 82/03/21                  | 2140:45                  | 2141:20                 | 120             | 65                  |                 | 2               |                          |       |
| 4901           | 80  | 82/03/21                  | 2147:55                  | 2148:15                 | 35              | 89                  |                 | 2               |                          |       |
| 4902           | 81  | 82/03/22                  | 0033:20                  | 0034:05                 | 120             | 63                  |                 | 2               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 4903           | 81  | 82/03/22                  | 0044:55                  | 0045:35                 | 165             | 85                  |                 | 2               |                          |        |
| 4904           | 81  | 82/03/22                  | 0152:40                  | 0153:00                 | 115             | 71                  |                 | 2               |                          |        |
| 7354           | 81  | 82/03/22                  | 0357:24                  | 0358:21                 | 77              | 72                  |                 | 2               |                          | I      |
| 7355           | 81  | 82/03/22                  | 0406:58                  | 0407:20                 | 152             | 147                 | 5656            | 2               | 227, 5                   | I      |
| 7356           | 81  | 82/03/22                  | 0422:15                  | 0422:50                 | 63              | 57                  |                 | 2               |                          | I      |
| 7357           | 81  | 82/03/22                  | 0511:48                  | 0512:21                 | 117             | 78                  |                 | 2               |                          | I      |
| 7358           | 81  | 82/03/22                  | 0517:33                  | 0518:13                 | 109             | 84                  |                 | 2               |                          | I      |
| 7359           | 81  | 82/03/22                  | 0546:30                  | 0546:57                 | 58              | 55                  |                 | 2               |                          | I      |
| 7360           | 81  | 82/03/22                  | 0555:31                  | 0600:24                 | 379             | 1063                | 35477           | 7               | 227, 6                   | M, I   |
| 7362           | 81  | 82/03/22                  | 0639:23                  | 0639:38                 | 29              | 60                  |                 | 2               | 227, 7                   | I      |
| 7361           | 81  | 82/03/22                  | 0640:39                  | 0641:02                 | 167             | 113                 | 2217            | 2               | 227, 7                   | I      |
| 7363           | 81  | 82/03/22                  | 0652:27                  | 0653:13                 | 67              | 71                  |                 | 2               |                          | I      |
| 4905           | 81  | 82/03/22                  | 0822:13                  | 0822:37                 | 65              | 105                 | 1037            | 2               | 159, 7                   |        |
| 4906           | 81  | 82/03/22                  | 0825:52                  | 0826:34                 | 113             | 68                  |                 | 2               |                          |        |
| 4907           | 81  | 82/03/22                  | 0909:15                  | 0909:49                 | 73              | 70                  |                 | 2               |                          |        |
| 4908           | 81  | 82/03/22                  | 1128:01                  | 1128:51                 | 161             | 87                  |                 | 12              |                          | AX     |
| 4909           | 81  | 82/03/22                  | 1218:03                  | 1218:11                 | 96              | 63                  |                 | 2               |                          |        |
| 7373           | 81  | 82/03/22                  | 1307:31                  | 1309:29                 | 223             | 112                 | 4946            | 4               | 227, 10                  | I      |
| 7374           | 81  | 82/03/22                  | 1456:51                  | 1457:18                 | 98              | 52                  |                 | 2               |                          | I      |
| 4910           | 81  | 82/03/22                  | 1624:07                  | 1625:45                 | 319             | 303                 | 14091           | 2               | 159, 8                   | FS     |
| 4915           | 81  | 82/03/22                  | 2252:17                  | 2252:46                 | 60              | 70                  |                 | 2               |                          | EW     |
| 4916           | 81  | 82/03/22                  | 2303:29                  | 2303:34                 | 14              | 76                  |                 | 2               |                          | EW     |
| 4911           | 82  | 82/03/23                  | 0016:53                  | 0016:58                 | 42              | 72                  |                 | 2               |                          |        |
| 6763           | 82  | 82/03/23                  | 0140:00                  | 0140:41                 | 131             | 76                  | 1215            | 2               |                          | I      |
| 6764           | 82  | 82/03/23                  | 0201:59                  | 0202:16                 | 31              | 60                  |                 | 2               |                          | I      |
| 6765           | 82  | 82/03/23                  | 0211:09                  | 0211:55                 | 85              | 69                  |                 | 2               |                          | I      |
| 6766           | 82  | 82/03/23                  | 0217:34                  | 0217:38                 | 7               | 60                  |                 | 2               |                          | I      |
| 4917           | 82  | 82/03/23                  | 0314:07                  | 0316:36                 | 198             | 56                  |                 | 2               |                          | AX, EW |
| 4918           | 82  | 82/03/23                  | 0328:33                  | 0329:07                 | 75              | 74                  |                 | 2               |                          | EW     |
| 7375           | 82  | 82/03/23                  | 0457:36                  | 0457:44                 | 18              | 70                  |                 | 2               |                          | I      |
| 7376           | 82  | 82/03/23                  | 0516:09                  | 0518:27                 | 662             | 430                 | 62401           | 4               | 227, 11                  | I      |
| 7377           | 82  | 82/03/23                  | 0543:23                  | 0544:18                 | 97              | 146                 | 823             | 3               | 227, 12                  | I      |
| 4912           | 82  | 82/03/23                  | 0627:02                  | 0627:21                 | 34              | 73                  |                 | 2               |                          |        |
| 4919           | 82  | 82/03/23                  | 0645:23                  | 0645:55                 | 54              | 78                  |                 | 2               |                          | EW     |
| 7378           | 82  | 82/03/23                  | 0657:58                  | 0658:11                 | 35              | 56                  |                 | 2               |                          | I      |
| 4920           | 82  | 82/03/23                  | 0714:54                  | 0715:34                 | 91              | 284                 | 4297            | 2               | 159, 10                  | ND, EW |
| 4913           | 82  | 82/03/23                  | 0855:05                  | 0855:39                 | 165             | 85                  |                 | 2               |                          |        |
| 7379           | 82  | 82/03/23                  | 0953:03                  | 0953:21                 | 53              | 192                 | 1660            | 2               | 227, 14                  | I      |
| 7380           | 82  | 82/03/23                  | 0957:10                  | 0957:18                 | 13              | 60                  |                 | 2               |                          | I      |
| 7381           | 82  | 82/03/23                  | 1018:03                  | 1018:15                 | 27              | 52                  |                 | 2               |                          | I      |
| 4914           | 82  | 82/03/23                  | 1116:01                  | 1116:09                 | 16              | 136                 | 334             | 2               | 159, 9                   |        |
| 7382           | 82  | 82/03/23                  | 1258:19                  | 1258:28                 | 18              | 261                 | 617             | 3               | 227, 15                  | I      |
| 7383           | 82  | 82/03/23                  | 1301:40                  | 1302:19                 | 76              | 77                  |                 | 2               |                          | I      |
| 7384           | 82  | 82/03/23                  | 1319:12                  | 1319:39                 | 57              | 48                  |                 | 2               |                          | I      |
| 7385           | 82  | 82/03/23                  | 1330:34                  | 1330:56                 | 69              | 143                 | 1836            | 2               |                          | I      |
| 4921           | 82  | 82/03/23                  | 1931:02                  | 1931:13                 | 26              | 105                 | 389             | 2               | 159, 11                  |        |
| 4922           | 82  | 82/03/23                  | 2100:12                  | 2102:03                 | 189             | 92                  |                 | 2               |                          |        |
| 4923           | 82  | 82/03/23                  | 2107:58                  | 2108:17                 | 114             | 80                  |                 | 3               |                          |        |
| 7386           | 82  | 82/03/23                  | 2256:43                  | 2256:50                 | 21              | 99                  |                 | 2               |                          | I      |
| 4924           | 82  | 82/03/23                  | 2355:52                  | 2356:23                 | 83              | 129                 | 1501            | 3               | 159, 12                  |        |
| 4925           | 83  | 82/03/24                  | 0019:32                  | 0020:43                 | 192             | 85                  |                 | 2               |                          |        |
| 4926           | 83  | 82/03/24                  | 0032:26                  | 0035:07                 | 182             | 89                  |                 | 2               |                          |        |
| 7387           | 83  | 82/03/24                  | 0210:12                  | 0210:20                 | 14              | 99                  |                 | 2               |                          | I      |
| 7388           | 83  | 82/03/24                  | 0215:37                  | 0215:52                 | 23              | 71                  |                 | 2               |                          | I      |
| 7389           | 83  | 82/03/24                  | 0217:30                  | 0218:10                 | 50              | 58                  |                 | 2               |                          | I      |
| 4927           | 83  | 82/03/24                  | 0350:39                  | 0351:06                 | 73              | 63                  |                 | 2               |                          |        |
| 4928           | 83  | 82/03/24                  | 0457:30                  | 0457:40                 | 135             | 780                 | 13930           | 4               | 159, 13                  |        |
| 4929           | 83  | 82/03/24                  | 0626:00                  | 0626:06                 | 18              | 67                  |                 | 2               |                          |        |
| 4930           | 83  | 82/03/24                  | 0654:51                  | 0655:13                 | 66              | 575                 | 6681            | 5               | 159, 14                  |        |
| 7390           | 83  | 82/03/24                  | 0751:21                  | 0751:43                 | 61              | 126                 | 842             | 2               | 228, 1                   | I      |
| 4931           | 83  | 82/03/24                  | 1137:35                  | 1137:40                 | 19              | 64                  |                 | 2               |                          |        |
| 7391           | 83  | 82/03/24                  | 1249:20                  | 1249:43                 | 97              | 76                  |                 | 2               |                          | I      |
| 7392           | 83  | 82/03/24                  | 1405:25                  | 1406:58                 | 177             | 59                  |                 | 2               |                          | I      |
| 4932           | 83  | 82/03/24                  | 2034:15                  | 2034:56                 | 194             | 281                 | 10208           | 4               | 159, 15                  | EW     |
| 4933           | 83  | 82/03/24                  | 2200:19                  | 2201:08                 | 350             | 106                 | 6313            | 2               | 159, 16                  | SN     |
| 4934           | 84  | 82/03/25                  | 0139:20                  | 0140:59                 | 121             | 165                 | 54999           | 2               | 160, 1                   | EG, ND |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 4935           | 84  | 82/03/25                  | 0307:27                  | 0307:42                 | 94              | 85                  |                 | 2               |                          |       |
| 4936           | 84  | 82/03/25                  | 0606:04                  | 0608:52                 | 672             | 137                 | 12094           | 3               | 160, 2                   |       |
| 4937           | 84  | 82/03/25                  | 0639:35                  | 0640:14                 | 61              | 54                  |                 | 2               |                          |       |
| 4938           | 84  | 82/03/25                  | 0932:04                  | 0932:18                 | 31              | 92                  |                 | 2               |                          |       |
| 4939           | 84  | 82/03/25                  | 1057:05                  | 1057:22                 | 40              | 67                  |                 | 2               |                          |       |
| 4940           | 84  | 82/03/25                  | 1131:11                  | 1131:27                 | 47              | 66                  |                 | 2               |                          |       |
| 7397           | 84  | 82/03/25                  | 1224:08                  | 1224:16                 | 16              | 98                  |                 | 2               |                          | I     |
| 7398           | 84  | 82/03/25                  | 1227:14                  | 1227:44                 | 60              | 85                  |                 | 2               |                          | I     |
| 7399           | 84  | 82/03/25                  | 1903:35                  | 1904:01                 | 41              | 54                  |                 | 2               |                          | I     |
| 7400           | 84  | 82/03/25                  | 2216:43                  | 2217:05                 | 90              | 131                 | 92              | 2               | 228, 4                   | I     |
| 7401           | 84  | 82/03/25                  | 2352:45                  | 2352:51                 | 14              | 64                  |                 | 2               |                          | I     |
| 4941           | 85  | 82/03/26                  | 0546:55                  | 0549:09                 | 377             | 4635                | 1.42E+05        | 12              | 160, 3                   | M     |
| 7402           | 85  | 82/03/26                  | 1845:15                  | 1845:26                 | 29              | 120                 | 1558            | 2               | 228, 5                   | I     |
| 4942           | 85  | 82/03/26                  | 2137:20                  | 2137:50                 | 85              | 110                 | 1816            | 2               | 160, 5                   |       |
| 4943           | 85  | 82/03/26                  | 2143:20                  | 2144:05                 | 45              | 80                  |                 | 2               |                          |       |
| 4944           | 86  | 82/03/27                  | 0216:35                  | 0217:25                 | 530             | 126                 | 9089            | 2               | 160, 6                   |       |
| 4945           | 86  | 82/03/27                  | 0301:55                  | 0302:25                 | 79              | 144                 | 2250            | 3               | 160, 7                   |       |
| 4946           | 86  | 82/03/27                  | 0305:20                  | 0305:30                 | 45              | 64                  |                 | 2               | 160, 7                   |       |
| 4947           | 86  | 82/03/27                  | 0408:30                  | 0409:45                 | 125             | 71                  |                 | 2               |                          |       |
| 4948           | 86  | 82/03/27                  | 0912:05                  | 0914:25                 | 373             | 121                 | 6193            | 2               | 160, 8                   |       |
| 7403           | 86  | 82/03/27                  | 1032:52                  | 1033:23                 | 47              | 54                  |                 | 2               |                          | I     |
| 4949           | 86  | 82/03/27                  | 1413:45                  | 1415:50                 | 462             | 5029                | 6.29E+05        | 6               | 160, 9                   | EN,SA |
| 4950           | 86  | 82/03/27                  | 1518:00                  | 1518:30                 | 180             | 1121                | 18427           | 5               | 160, 10                  | M,EW  |
| 4951           | 86  | 82/03/27                  | 1825:50                  | 1826:50                 | 85              | 56                  |                 | 2               |                          | EW    |
| 4952           | 86  | 82/03/27                  | 2303:30                  | 2304:05                 | 40              | 89                  |                 | 2               |                          |       |
| 7406           | 86  | 82/03/27                  | 2328:59                  | 2329:21                 | 70              | 41                  |                 | 2               |                          | I     |
| 7409           | 87  | 82/03/28                  | 0358:25                  | 0358:41                 | 41              | 320                 | 2413            | 3               | 228, 8                   | M,I   |
| 7410           | 87  | 82/03/28                  | 0430:00                  | 0433:38                 | 335             | 331                 | 12291           | 4               | 228, 10                  | I     |
| 7411           | 87  | 82/03/28                  | 0518:27                  | 0518:34                 | 37              | 68                  |                 | 2               |                          | I     |
| 7412           | 87  | 82/03/28                  | 0554:19                  | 0554:29                 | 25              | 227                 | 1186            | 2               | 228, 11                  | I     |
| 7413           | 87  | 82/03/28                  | 0558:28                  | 0559:06                 | 61              | 105                 | 1419            | 2               | 228, 11                  | I     |
| 4953           | 87  | 82/03/28                  | 0902:35                  | 0904:05                 | 105             | 67                  |                 | 2               |                          |       |
| 4954           | 87  | 82/03/28                  | 0915:55                  | 0916:25                 | 40              | 58                  |                 | 2               |                          |       |
| 8148           | 87  | 82/03/28                  | 1316:43                  | 1317:17                 | 200             | 88                  |                 | 2               |                          | I     |
| 7414           | 87  | 82/03/28                  | 1452:22                  | 1452:41                 | 58              | 71                  |                 | 2               |                          | I     |
| 7415           | 87  | 82/03/28                  | 2000:14                  | 2000:54                 | 87              | 100                 | 2021            | 2               |                          | I     |
| 4955           | 88  | 82/03/29                  | 0059:10                  | 0059:35                 | 60              | 97                  |                 | 2               |                          |       |
| 4956           | 88  | 82/03/29                  | 0331:20                  | 0332:25                 | 204             | 156                 | 6718            | 3               | 160, 11                  |       |
| 4957           | 88  | 82/03/29                  | 0354:40                  | 0356:10                 | 272             | 73                  | 3604            | 2               | 160, 12                  |       |
| 4958           | 88  | 82/03/29                  | 0415:25                  | 0416:40                 | 135             | 141                 | 1774            | 2               | 160, 13                  |       |
| 4959           | 88  | 82/03/29                  | 0905:20                  | 0907:25                 | 137             | 1123                | 17372           | 4               | 160, 14                  | M     |
| 7416           | 88  | 82/03/29                  | 0943:21                  | 0944:00                 | 83              | 56                  |                 | 2               |                          | I     |
| 7417           | 88  | 82/03/29                  | 0950:17                  | 0950:39                 | 45              | 113                 | 1022            | 5               | 228, 13                  | I     |
| 7418           | 88  | 82/03/29                  | 1038:15                  | 1038:25                 | 20              | 108                 | 457             | 2               | 228, 14                  | I     |
| 4960           | 88  | 82/03/29                  | 1437:49                  | 1438:05                 | 55              | 60                  |                 | 2               |                          |       |
| 4961           | 88  | 82/03/29                  | 1623:27                  | 1624:08                 | 83              | 68                  |                 | 2               |                          |       |
| 7419           | 88  | 82/03/29                  | 1939:45                  | 1940:24                 | 97              | 470                 | 6792            | 3               | 228, 15                  | M,I   |
| 7420           | 88  | 82/03/29                  | 1943:46                  | 1945:09                 | 259             | 112                 | 5202            | 2               | 228, 15                  | I     |
| 4962           | 88  | 82/03/29                  | 2109:27                  | 2111:13                 | 236             | 212                 | 5684            | 2               | 160, 15                  |       |
| 7421           | 88  | 82/03/29                  | 2259:20                  | 2300:42                 | 150             | 91                  |                 | 2               |                          | I     |
| 4974           | 89  | 82/03/30                  | 0015:10                  | 0015:25                 | 25              | 96                  |                 | 2               |                          |       |
| 4963           | 89  | 82/03/30                  | 0220:36                  | 0221:03                 | 47              | 64                  |                 | 2               |                          |       |
| 4964           | 89  | 82/03/30                  | 0232:00                  | 0233:04                 | 77              | 99                  |                 | 2               |                          |       |
| 4965           | 89  | 82/03/30                  | 0521:10                  | 0537:14                 | 1326            | 18903               | 6.47E+06        | 15              | 161, 1                   | SN    |
| 4966           | 89  | 82/03/30                  | 0802:20                  | 0803:14                 | 89              | 60                  |                 | 2               |                          |       |
| 4967           | 89  | 82/03/30                  | 0834:10                  | 0835:48                 | 253             | 375                 | 6721            | 3               | 161, 2                   | M     |
| 7422           | 89  | 82/03/30                  | 1108:53                  | 1109:09                 | 70              | 140                 | 2612            | 2               | 228, 16                  | I     |
| 7423           | 89  | 82/03/30                  | 1120:19                  | 1120:38                 | 64              | 62                  |                 | 2               |                          | I     |
| 4968           | 89  | 82/03/30                  | 1417:32                  | 1419:08                 | 678             | 459                 | 74222           | 3               | 161, 4                   | M     |
| 4969           | 89  | 82/03/30                  | 1601:20                  | 1601:52                 | 165             | 75                  |                 | 2               |                          |       |
| 4970           | 89  | 82/03/30                  | 1747:10                  | 1748:05                 | 70              | 65                  |                 | 2               |                          |       |
| 4971           | 89  | 82/03/30                  | 2049:15                  | 2049:20                 | 21              | 124                 | 513             | 2               | 161, 5                   |       |
| 4972           | 89  | 82/03/30                  | 2058:20                  | 2058:55                 | 113             | 367                 | 4076            | 3               | 161, 6                   |       |
| 4973           | 89  | 82/03/30                  | 2252:05                  | 2252:15                 | 85              | 91                  |                 | 2               |                          |       |
| 4975           | 90  | 82/03/31                  | 0123:05                  | 0126:15                 | 779             | 182                 | 21777           | 2               | 161, 7                   |       |
| 4976           | 90  | 82/03/31                  | 0204:05                  | 0204:50                 | 128             | 132                 | 2935            | 2               | 161, 8                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------|
| 4977           | 90  | 82/03/31                  | 0312:10                  | 0312:25                 | 85              | 358                 | 4473            | 3               | 161, 9                   | M       |
| 4980           | 90  | 82/03/31                  | 0611:00                  | 0615:54                 | 1268            | 1498                | 79573           | 5               | 161, 12                  | M,FS    |
| 4981           | 90  | 82/03/31                  | 0701:55                  | 0702:14                 | 50              | 52                  |                 | 2               |                          |         |
| 4978           | 90  | 82/03/31                  | 0833:05                  | 0834:25                 | 354             | 3248                | 1.86E+05        | 5               | 161, 11                  | M       |
| 4979           | 90  | 82/03/31                  | 1146:40                  | 1147:10                 | 40              | 60                  |                 | 2               |                          |         |
| 4982           | 90  | 82/03/31                  | 1553:26                  | 1553:51                 | 60              | 91                  |                 | 2               |                          |         |
| 4983           | 90  | 82/03/31                  | 1713:36                  | 1714:28                 | 107             | 115                 | 1043            | 2               | 161, 13                  |         |
| 7424           | 90  | 82/03/31                  | 1859:00                  | 1900:01                 | 101             | 91                  |                 | 2               |                          | I       |
| 4984           | 90  | 82/03/31                  | 2221:52                  | 2225:33                 | 1038            | 7677                | 5.76E+05        | 9               | 161, 14                  | M,ND    |
| 4985           | 91  | 82/04/01                  | 0556:06                  | 0557:15                 | 222             | 207                 | 8469            | 2               | 161, 15                  |         |
| 7425           | 91  | 82/04/01                  | 0750:45                  | 0751:13                 | 60              | 56                  |                 | 2               |                          | I       |
| 4986           | 91  | 82/04/01                  | 1848:06                  | 1848:40                 | 85              | 113                 | 1016            | 2               | 161, 16                  |         |
| 4987           | 91  | 82/04/01                  | 2349:35                  | 2349:45                 | 35              | 244                 | 1684            | 2               | 162, 1                   |         |
| 4988           | 92  | 82/04/02                  | 0407:25                  | 0407:30                 | 55              | 60                  |                 | 2               |                          |         |
| 4989           | 92  | 82/04/02                  | 0901:20                  | 0907:50                 | 1177            | 8452                | 5.24E+05        | 13              | 162, 2                   | FS      |
| 4990           | 92  | 82/04/02                  | 1703:30                  | 1704:15                 | 133             | 194                 | 3726            | 5               | 162, 3                   |         |
| 4991           | 92  | 82/04/02                  | 2347:42                  | 2348:14                 | 74              | 107                 | 1579            | 3               | 162, 4                   |         |
| 4992           | 93  | 82/04/03                  | 0133:46                  | 0135:02                 | 148             | 59                  |                 | 2               |                          |         |
| 4993           | 93  | 82/04/03                  | 0242:47                  | 0243:10                 | 102             | 64                  |                 | 2               |                          |         |
| 4994           | 93  | 82/04/03                  | 0718:51                  | 0719:04                 | 22              | 60                  |                 | 2               |                          |         |
| 4995           | 93  | 82/04/03                  | 0735:43                  | 0736:16                 | 40              | 79                  |                 | 2               |                          |         |
| 4996           | 93  | 82/04/03                  | 0743:05                  | 0744:38                 | 303             | 107                 | 3828            | 2               | 162, 5                   |         |
| 4997           | 93  | 82/04/03                  | 0753:37                  | 0755:36                 | 242             | 73                  | 3572            | 2               | 162, 5                   | EN      |
| 7440           | 93  | 82/04/03                  | 1227:19                  | 1228:42                 | 375             | 225                 | 9038            | 3               | 229, 5                   | I,SA    |
| 7441           | 93  | 82/04/03                  | 1411:30                  | 1411:45                 | 80              | 107                 | 1192            | 2               | 229, 6                   | I       |
| 4998           | 93  | 82/04/03                  | 1455:40                  | 1456:15                 | 288             | 57                  | 5464            | 3               | 162, 6                   | EW      |
| 4999           | 93  | 82/04/03                  | 2011:45                  | 2012:00                 | 65              | 60                  |                 | 2               |                          |         |
| 5000           | 94  | 82/04/04                  | 0402:10                  | 0402:40                 | 59              | 163                 | 2138            | 2               | 162, 7                   |         |
| 5001           | 94  | 82/04/04                  | 1355:45                  | 1400:10                 | 344             | 89                  | 1703            | 2               | 162, 8                   |         |
| 5002           | 94  | 82/04/04                  | 1814:15                  | 1814:35                 | 75              | 76                  |                 | 2               |                          |         |
| 5003           | 95  | 82/04/05                  | 0845:30                  | 0847:30                 | 232             | 111                 | 4480            | 2               | 162, 9                   |         |
| 5004           | 95  | 82/04/05                  | 1616:02                  | 1617:18                 | 194             | 78                  |                 | 2               |                          | EW      |
| 5005           | 97  | 82/04/07                  | 1221:30                  | 1222:30                 | 125             | 63                  |                 | 2               |                          |         |
| 5006           | 98  | 82/04/08                  | 1353:40                  | 1354:35                 | 107             | 117                 | 845             | 2               | 162, 10                  |         |
| 5007           | 99  | 82/04/09                  | 0424:59                  | 0426:25                 | 132             | 59                  |                 | 2               |                          | EW      |
| 5008           | 99  | 82/04/09                  | 2219:15                  | 2219:35                 | 90              | 69                  |                 | 2               |                          |         |
| 5009           | 99  | 82/04/09                  | 2350:40                  | 2351:50                 | 205             | 170                 | 7158            | 2               | 162, 11                  | SG      |
| 6767           | 100 | 82/04/10                  | 0230:46                  | 0242:00                 | 855             | 58                  | 3069            | 2               | 212, 8                   |         |
| 5010           | 100 | 82/04/10                  | 2333:45                  | 2334:10                 | 145             | 93                  |                 | 2               |                          |         |
| 5011           | 100 | 82/04/10                  | 2337:05                  | 2337:40                 | 65              | 58                  |                 | 2               |                          |         |
| 5012           | 101 | 82/04/11                  | 0331:30                  | 0335:45                 | 626             | 245                 | 9254            | 2               | 162, 12                  |         |
| 5013           | 101 | 82/04/11                  | 1346:50                  | 1347:35                 | 297             | 106                 | 4462            | 2               | 162, 13                  |         |
| 5014           | 101 | 82/04/11                  | 1752:00                  | 1753:00                 | 89              | 206                 | 2643            | 3               | 162, 14                  |         |
| 5015           | 101 | 82/04/11                  | 1952:00                  | 1952:50                 | 130             | 62                  |                 | 2               |                          |         |
| 5016           | 101 | 82/04/11                  | 2105:15                  | 2105:50                 | 170             | 94                  |                 | 6               |                          |         |
| 5017           | 101 | 82/04/11                  | 2241:25                  | 2242:40                 | 180             | 64                  |                 | 2               |                          |         |
| 5018           | 101 | 82/04/11                  | 2329:25                  | 2329:55                 | 143             | 59                  |                 | 2               |                          |         |
| 7444           | 102 | 82/04/12                  | 1249:39                  | 1250:05                 | 161             | 266                 | 8401            | 2               | 229, 8                   | M,I     |
| 7445           | 102 | 82/04/12                  | 1424:25                  | 1424:42                 | 32              | 85                  |                 | 2               |                          | I       |
| 5019           | 102 | 82/04/12                  | 1606:45                  | 1608:45                 | 502             | 352                 | 11417           | 4               | 162, 15                  |         |
| 5020           | 102 | 82/04/12                  | 1829:55                  | 1830:25                 | 75              | 71                  |                 | 2               |                          |         |
| 5021           | 102 | 82/04/12                  | 2225:40                  | 2226:55                 | 522             | 125                 | 8281            | 5               | 162, 16                  |         |
| 5022           | 102 | 82/04/12                  | 2315:15                  | 2315:55                 | 105             | 56                  |                 | 2               |                          |         |
| 5023           | 103 | 82/04/13                  | 0046:15                  | 0048:35                 | 185             | 62                  |                 | 3               |                          |         |
| 5024           | 103 | 82/04/13                  | 1631:24                  | 1632:21                 | 155             | 74                  |                 | 2               |                          |         |
| 5025           | 104 | 82/04/14                  | 0124:04                  | 0124:08                 | 30              | 56                  |                 | 2               |                          | EW      |
| 5026           | 104 | 82/04/14                  | 0248:08                  | 0249:38                 | 1162            | 193                 | 61396           | 5               | 163, 1                   | SN,EW   |
| 5027           | 105 | 82/04/15                  | 1239:46                  | 1240:17                 | 62              | 59                  |                 | 2               |                          |         |
| 5028           | 106 | 82/04/16                  | 0229:14                  | 0229:46                 | 67              | 57                  |                 | 2               |                          |         |
| 7446           | 106 | 82/04/16                  | 1416:02                  | 1416:48                 | 114             | 359                 | 5252            | 6               | 229, 9                   | M,I     |
| 5029           | 106 | 82/04/16                  | 2120:45                  | 2125:30                 | 573             | 776                 | 1.24E+05        | 8               | 163, 2                   | M,FS,EW |
| 5030           | 106 | 82/04/16                  | 2343:30                  | 2347:30                 | 433             | 185                 | 16420           | 13              | 163, 4                   |         |
| 5031           | 107 | 82/04/17                  | 0034:40                  | 0036:45                 | 170             | 69                  |                 | 3               |                          | EW      |
| 5032           | 107 | 82/04/17                  | 0104:55                  | 0108:05                 | 282             | 93                  | 4621            | 2               | 163, 5                   | EW      |
| 5033           | 107 | 82/04/17                  | 2104:55                  | 2106:20                 | 592             | 176                 | 27693           | 5               | 163, 6                   | SN,SG   |
| 5034           | 107 | 82/04/17                  | 2150:10                  | 2152:20                 | 300             | 76                  |                 | 5               |                          |         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 5035           | 108 | 82/04/18                  | 2049:05                  | 2050:55                 | 558             | 90                  | 13811           | 4               | 163, 7                   | SN,AX |
| 5036           | 108 | 82/04/18                  | 2133:55                  | 2134:40                 | 155             | 68                  |                 | 3               |                          |       |
| 5037           | 108 | 82/04/18                  | 2253:20                  | 2254:00                 | 100             | 65                  |                 | 2               |                          |       |
| 5038           | 109 | 82/04/19                  | 0003:01                  | 0003:30                 | 162             | 64                  |                 | 2               |                          |       |
| 5039           | 109 | 82/04/19                  | 1019:14                  | 1021:40                 | 351             | 659                 | 42910           | 7               | 163, 8                   | M     |
| 5040           | 109 | 82/04/19                  | 1810:21                  | 1811:28                 | 812             | 3645                | 3.14E+05        | 8               | 163, 9                   |       |
| 5041           | 110 | 82/04/20                  | 2158:53                  | 2159:17                 | 183             | 71                  |                 | 3               |                          |       |
| 5042           | 111 | 82/04/21                  | 2007:09                  | 2008:30                 | 182             | 83                  |                 | 4               |                          | AX    |
| 5043           | 111 | 82/04/21                  | 2048:04                  | 2049:10                 | 173             | 56                  |                 | 5               |                          | AX    |
| 5044           | 111 | 82/04/21                  | 2222:43                  | 2224:11                 | 166             | 77                  |                 | 5               |                          | AX    |
| 5045           | 112 | 82/04/22                  | 1243:55                  | 1251:40                 | 663             | 240                 | 40833           | 3               | 163, 10                  | EN    |
| 5046           | 112 | 82/04/22                  | 2028:21                  | 2028:58                 | 75              | 73                  |                 | 2               |                          | DG    |
| 5047           | 113 | 82/04/23                  | 0036:46                  | 0036:59                 | 36              | 194                 | 1685            | 4               | 163, 11                  |       |
| 5048           | 113 | 82/04/23                  | 0724:29                  | 0725:04                 | 61              | 58                  |                 | 2               |                          |       |
| 5049           | 113 | 82/04/23                  | 0902:49                  | 0903:22                 | 74              | 83                  |                 | 2               |                          |       |
| 5050           | 113 | 82/04/23                  | 1957:25                  | 1957:45                 | 45              | 66                  |                 | 2               |                          |       |
| 5051           | 114 | 82/04/24                  | 2135:00                  | 2139:30                 | 578             | 68                  | 4831            | 2               | 163, 12                  |       |
| 5052           | 116 | 82/04/26                  | 2359:16                  | 0001:40                 | 196             | 60                  |                 | 2               |                          |       |
| 7451           | 117 | 82/04/27                  | 0749:06                  | 0750:47                 | 396             | 79                  | 1459            | 2               | 229, 10                  | I     |
| * 5053         | 117 | 82/04/27                  | 1057:19                  | 1057:44                 | 54              | 79                  |                 | 2               |                          |       |
| * 5054         | 117 | 82/04/27                  | 1912:20                  | 1913:18                 | 133             | 65                  |                 | 5               |                          | AX    |
| * 5055         | 119 | 82/04/29                  | 1219:15                  | 1219:45                 | 95              | 73                  |                 | 2               |                          |       |
| 7452           | 119 | 82/04/29                  | 2014:33                  | 2018:33                 | 542             | 82                  | 8627            | 4               | 229, 11                  | I     |
| * 5056         | 120 | 82/04/30                  | 1501:35                  | 1503:00                 | 140             | 69                  |                 | 3               |                          | AX    |
| * 5057         | 120 | 82/04/30                  | 1816:40                  | 1818:00                 | 165             | 72                  |                 | 4               |                          | AX    |
| * 5058         | 120 | 82/04/30                  | 1954:30                  | 1955:50                 | 369             | 72                  | 3144            | 5               | 163, 13                  | AX,EW |
| * 5059         | 120 | 82/04/30                  | 2003:50                  | 2007:30                 | 394             | 61                  | 1173            | 2               | 163, 13                  |       |
| * 5060         | 121 | 82/05/01                  | 1446:30                  | 1447:00                 | 70              | 72                  |                 | 2               |                          | AX    |
| * 5061         | 121 | 82/05/01                  | 1624:00                  | 1625:15                 | 115             | 50                  |                 | 2               |                          | AX    |
| * 5062         | 121 | 82/05/01                  | 1800:20                  | 1801:45                 | 208             | 195                 | 49150           | 5               | 163, 14                  | DG,EW |
| * 5063         | 122 | 82/05/02                  | 0327:00                  | 0331:25                 | 422             | 75                  | 2826            | 2               | 163, 15                  |       |
| * 5064         | 122 | 82/05/02                  | 0344:20                  | 0349:10                 | 587             | 91                  | 3490            | 2               | 163, 15                  |       |
| * 5065         | 122 | 82/05/02                  | 0936:35                  | 0936:50                 | 40              | 66                  |                 | 2               |                          |       |
| * 5066         | 122 | 82/05/02                  | 1427:40                  | 1429:00                 | 115             | 179                 | 4213            | 6               | 163, 16                  | AX    |
| * 5067         | 122 | 82/05/02                  | 1452:20                  | 1453:00                 | 75              | 55                  |                 | 2               |                          |       |
| * 5068         | 122 | 82/05/02                  | 1606:25                  | 1607:25                 | 90              | 102                 | 3085            | 6               |                          | AX    |
| * 5069         | 122 | 82/05/02                  | 1742:50                  | 1744:20                 | 180             | 93                  |                 | 6               |                          | AX    |
| * 5070         | 122 | 82/05/02                  | 1909:10                  | 1921:35                 | 1441            | 67                  | 6785            | 2               | 164, 1                   | AX    |
| * 5071         | 123 | 82/05/03                  | 1111:36                  | 1112:13                 | 87              | 146                 | 1175            | 3               | 164, 2                   |       |
| * 3888         | 123 | 82/05/03                  | 1551:26                  | 1552:22                 | 61              | 60                  |                 | 2               |                          |       |
| * 5072         | 123 | 82/05/03                  | 1730:22                  | 1731:24                 | 172             | 106                 | 3055            | 5               | 164, 3                   | AX    |
| * 5073         | 123 | 82/05/03                  | 1900:39                  | 1901:41                 | 317             | 199                 | 12509           | 2               | 164, 4                   | EW    |
| * 5074         | 123 | 82/05/03                  | 2030:56                  | 2032:14                 | 150             | 97                  |                 | 2               |                          |       |
| * 5075         | 123 | 82/05/03                  | 2346:45                  | 2347:42                 | 140             | 68                  |                 | 2               |                          | EW    |
| * 5076         | 124 | 82/05/04                  | 0006:51                  | 0007:33                 | 120             | 197                 | 5500            | 3               | 164, 5                   | EW    |
| * 5077         | 124 | 82/05/04                  | 0256:40                  | 0257:06                 | 107             | 66                  |                 | 2               |                          |       |
| * 5078         | 125 | 82/05/05                  | 0054:29                  | 0055:22                 | 73              | 76                  |                 | 2               |                          |       |
| * 5079         | 126 | 82/05/06                  | 1658:53                  | 1659:08                 | 47              | 510                 | 8133            | 5               | 164, 6                   |       |
| * 5080         | 126 | 82/05/06                  | 1952:28                  | 1952:38                 | 30              | 88                  |                 | 5               |                          |       |
| * 5081         | 126 | 82/05/06                  | 2136:37                  | 2136:47                 | 54              | 67                  |                 | 2               |                          |       |
| * 5082         | 127 | 82/05/07                  | 0210:41                  | 0210:58                 | 89              | 82                  |                 | 2               |                          |       |
| * 5084         | 130 | 82/05/10                  | 0555:20                  | 0555:35                 | 45              | 96                  |                 | 2               |                          |       |
| * 5085         | 130 | 82/05/10                  | 0604:50                  | 0605:00                 | 125             | 71                  |                 | 3               |                          |       |
| * 5086         | 130 | 82/05/10                  | 0938:20                  | 0938:50                 | 65              | 88                  |                 | 2               |                          |       |
| * 5087         | 130 | 82/05/10                  | 1311:00                  | 1312:19                 | 107             | 87                  |                 | 2               |                          |       |
| * 5088         | 131 | 82/05/11                  | 0321:07                  | 0321:24                 | 79              | 534                 | 7597            | 5               | 164, 7                   | M1,FS |
| * 5089         | 131 | 82/05/11                  | 0718:21                  | 0718:56                 | 61              | 66                  |                 | 2               |                          |       |
| * 5090         | 133 | 82/05/13                  | 1051:19                  | 1051:28                 | 131             | 57                  |                 | 2               |                          |       |
| * 5091         | 133 | 82/05/13                  | 1309:06                  | 1311:17                 | 478             | 78                  | 7262            | 3               | 164, 8                   |       |
| 7455           | 135 | 82/05/15                  | 1243:29                  | 1244:01                 | 67              | 95                  |                 | 3               |                          | I     |
| * 5092         | 136 | 82/05/16                  | 0756:15                  | 0756:30                 | 115             | 64                  |                 | 13              |                          |       |
| * 5093         | 137 | 82/05/17                  | 0849:25                  | 0851:10                 | 292             | 86                  | 5284            | 4               | 164, 9                   |       |
| * 5094         | 137 | 82/05/17                  | 2149:49                  | 2150:13                 | 46              | 60                  |                 | 2               |                          |       |
| * 5095         | 137 | 82/05/17                  | 2319:04                  | 2320:54                 | 305             | 267                 | 10159           | 3               | 164, 10                  |       |
| * 5096         | 138 | 82/05/18                  | 0223:37                  | 0224:15                 | 51              | 112                 | 1024            | 4               | 164, 11                  |       |
| * 5098         | 138 | 82/05/18                  | 1812:40                  | 1813:00                 | 175             | 77                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 5100         | 138 | 82/05/18                  | 2141:25                  | 2142:30                 | 80              | 176                 | 1539            | 2               | 164, 12                  |          |
| * 5097         | 139 | 82/05/19                  | 0529:35                  | 0529:45                 | 160             | 67                  |                 | 2               |                          |          |
| 7456           | 139 | 82/05/19                  | 1408:44                  | 1408:55                 | 31              | 122                 | 675             | 2               |                          | I        |
| * 5099         | 139 | 82/05/19                  | 1938:30                  | 1939:05                 | 90              | 74                  |                 | 2               |                          |          |
| * 5101         | 140 | 82/05/20                  | 0149:50                  | 0151:15                 | 514             | 84                  | 5475            | 2               | 164, 13                  |          |
| 7457           | 140 | 82/05/20                  | 0325:39                  | 0327:53                 | 165             | 53                  |                 | 2               |                          | I        |
| 7458           | 140 | 82/05/20                  | 0532:50                  | 0536:09                 | 477             | 172                 | 17116           | 2               | 229, 13                  | I        |
| * 5102         | 140 | 82/05/20                  | 1426:50                  | 1427:40                 | 805             | 121                 | 13837           | 2               | 164, 14                  | SN       |
| * 5103         | 141 | 82/05/21                  | 0307:20                  | 0308:05                 | 150             | 52                  |                 | 2               |                          |          |
| 7459           | 141 | 82/05/21                  | 1414:10                  | 1423:27                 | 1012            | 143                 | 2.84E+05        | 5               | 229, 14                  | I ,ES    |
| * 5104         | 142 | 82/05/22                  | 0037:43                  | 0039:12                 | 585             | 310                 | 37188           | 2               | 164, 15                  | EW       |
| * 5105         | 142 | 82/05/22                  | 0253:35                  | 0256:55                 | 343             | 94                  | 5767            | 2               | 164, 16                  |          |
| * 5106         | 142 | 82/05/22                  | 0435:04                  | 0435:37                 | 51              | 50                  |                 | 2               |                          |          |
| * 5107         | 142 | 82/05/22                  | 0441:16                  | 0441:40                 | 88              | 209                 | 3080            | 2               | 165, 1                   |          |
| 7461           | 142 | 82/05/22                  | 1708:20                  | 1708:20                 | 204             | 70                  |                 | 2               |                          | I        |
| 7462           | 142 | 82/05/22                  | 2040:44                  | 2041:17                 | 107             | 132                 | 2591            | 3               | 229, 15                  | I        |
| * 5108         | 142 | 82/05/22                  | 2232:18                  | 2232:41                 | 41              | 87                  |                 | 2               |                          |          |
| * 5109         | 143 | 82/05/23                  | 0243:25                  | 0245:17                 | 680             | 359                 | 24382           | 2               | 165, 2                   |          |
| 7463           | 143 | 82/05/23                  | 1842:14                  | 1844:56                 | 463             | 2061                | 64951           | 5               | 229, 16                  | I ,FS    |
| * 5110         | 145 | 82/05/25                  | 0222:11                  | 0222:19                 | 23              | 115                 | 474             | 2               | 165, 3                   |          |
| * 5111         | 146 | 82/05/26                  | 0345:05                  | 0345:22                 | 121             | 97                  |                 | 2               |                          |          |
| 7468           | 146 | 82/05/26                  | 1844:00                  | 1846:21                 | 210             | 63                  |                 | 2               |                          | I        |
| 7469           | 146 | 82/05/26                  | 1926:50                  | 1927:07                 | 35              | 59                  |                 | 2               |                          | I        |
| 7470           | 146 | 82/05/26                  | 2022:10                  | 2023:04                 | 116             | 54                  |                 | 2               |                          | I        |
| * 5112         | 146 | 82/05/26                  | 2116:55                  | 2118:40                 | 150             | 101                 | 3468            | 2               |                          |          |
| * 5113         | 146 | 82/05/26                  | 2119:35                  | 2119:55                 | 90              | 68                  |                 | 2               |                          |          |
| * 5114         | 147 | 82/05/27                  | 0507:42                  | 0508:05                 | 71              | 127                 | 1739            | 2               | 165, 4                   |          |
| * 5115         | 147 | 82/05/27                  | 0549:50                  | 0550:05                 | 35              | 61                  |                 | 2               |                          |          |
| 7471           | 147 | 82/05/27                  | 1200:46                  | 1200:54                 | 13              | 68                  |                 | 2               |                          | I        |
| 7472           | 147 | 82/05/27                  | 2356:14                  | 2357:16                 | 130             | 61                  |                 | 2               |                          | I        |
| * 5118         | 148 | 82/05/28                  | 0055:08                  | 0055:21                 | 30              | 63                  |                 | 2               |                          |          |
| 7473           | 148 | 82/05/28                  | 0221:36                  | 0222:07                 | 64              | 74                  |                 | 2               |                          | I        |
| * 5119         | 148 | 82/05/28                  | 0303:20                  | 0305:36                 | 347             | 177                 | 13645           | 2               | 165, 7                   |          |
| * 5120         | 148 | 82/05/28                  | 0327:33                  | 0328:22                 | 140             | 166                 | 5341            | 2               | 165, 7                   |          |
| 7474           | 148 | 82/05/28                  | 0830:16                  | 0830:24                 | 47              | 60                  |                 | 2               |                          | I        |
| * 5121         | 148 | 82/05/28                  | 1456:32                  | 1456:57                 | 300             | 178                 | 6727            | 4               | 165, 8                   |          |
| * 5116         | 148 | 82/05/28                  | 1608:24                  | 1609:21                 | 98              | 261                 | 4788            | 2               | 165, 5                   | EW       |
| 7487           | 148 | 82/05/28                  | 1638:20                  | 1639:12                 | 118             | 92                  |                 | 2               |                          | I        |
| 7488           | 148 | 82/05/28                  | 1920:40                  | 1920:54                 | 199             | 125                 | 4551            | 2               | 230, 13                  | I        |
| 7489           | 148 | 82/05/28                  | 1946:19                  | 1946:32                 | 33              | 115                 | 571             | 2               | 230, 14                  | I        |
| 7490           | 148 | 82/05/28                  | 2114:07                  | 2114:20                 | 31              | 79                  |                 | 2               |                          | I        |
| * 5122         | 148 | 82/05/28                  | 2215:51                  | 2217:41                 | 168             | 141                 | 2675            | 2               | 165, 9                   |          |
| * 5117         | 148 | 82/05/28                  | 2229:49                  | 2230:53                 | 373             | 109                 | 8117            | 5               | 165, 6                   | EW       |
| 7494           | 149 | 82/05/29                  | 0034:12                  | 0035:11                 | 127             | 62                  |                 | 2               |                          | I        |
| * 5123         | 149 | 82/05/29                  | 0518:43                  | 0519:39                 | 93              | 87                  |                 | 2               |                          |          |
| * 5124         | 149 | 82/05/29                  | 0620:42                  | 0627:00                 | 631             | 86                  | 7898            | 2               | 165, 10                  |          |
| * 5125         | 149 | 82/05/29                  | 0647:53                  | 0648:13                 | 43              | 79                  |                 | 2               |                          |          |
| * 5126         | 149 | 82/05/29                  | 0659:23                  | 0700:20                 | 67              | 85                  |                 | 2               |                          |          |
| * 5127         | 149 | 82/05/29                  | 0819:43                  | 0820:05                 | 146             | 152                 | 2724            | 2               | 165, 11                  | EW       |
| * 5128         | 149 | 82/05/29                  | 0947:19                  | 0948:14                 | 68              | 71                  |                 | 2               |                          | EW       |
| * 5129         | 149 | 82/05/29                  | 1002:08                  | 1002:23                 | 46              | 78                  |                 | 2               |                          | EW       |
| * 6243         | 149 | 82/05/29                  | 1258:05                  | 1258:27                 | 148             | 129                 | 3518            | 2               | 194, 11                  | I        |
| * 6244         | 149 | 82/05/29                  | 1318:17                  | 1321:08                 | 184             | 95                  |                 | 2               |                          | I ,EN    |
| * 5130         | 149 | 82/05/29                  | 1535:17                  | 1535:45                 | 67              | 136                 | 1581            | 2               | 165, 12                  |          |
| * 6245         | 149 | 82/05/29                  | 1704:15                  | 1704:21                 | 77              | 53                  |                 | 2               |                          | I        |
| * 6246         | 149 | 82/05/29                  | 1718:26                  | 1720:14                 | 181             | 82                  | 9391            | 2               |                          | I        |
| * 6247         | 149 | 82/05/29                  | 2017:17                  | 2017:42                 | 159             | 95                  |                 | 2               |                          | I        |
| * 6248         | 149 | 82/05/29                  | 2021:44                  | 2022:48                 | 286             | 277                 | 14943           | 2               | 194, 12                  | I        |
| * 6249         | 149 | 82/05/29                  | 2055:36                  | 2100:27                 | 786             | 407                 | 36586           | 3               | 194, 13                  | I        |
| * 6250         | 149 | 82/05/29                  | 2149:24                  | 2203:52                 | 2578            | 3610                | 1.71E+06        | 8               | 194, 14                  | M1,I ,SN |
| 7493           | 149 | 82/05/29                  | 2343:28                  | 2344:42                 | 933             | 145                 | 18155           | 4               | 231, 1                   | I        |
| * 5131         | 150 | 82/05/30                  | 0600:50                  | 0602:02                 | 692             | 196                 | 32539           | 2               | 165, 13                  | SA       |
| * 5132         | 150 | 82/05/30                  | 0949:30                  | 0949:40                 | 69              | 326                 | 3714            | 8               | 165, 14                  | NO       |
| * 5133         | 150 | 82/05/30                  | 2140:27                  | 2142:08                 | 376             | 83                  | 5255            | 5               | 165, 15                  | AX       |
| * 5134         | 150 | 82/05/30                  | 2234:38                  | 2235:46                 | 101             | 98                  |                 | 2               |                          |          |
| * 5135         | 151 | 82/05/31                  | 0141:34                  | 0143:48                 | 296             | 109                 | 8548            | 6               | 165, 16                  | AX,EW    |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 5136         | 151 | 82/05/31                  | 0303:35                  | 0310:10                 | 691             | 781                 | 41976           | 5               | 166, 1                   | M1       |
| * 5137         | 151 | 82/05/31                  | 0725:21                  | 0725:53                 | 55              | 95                  |                 | 2               |                          |          |
| 7495           | 151 | 82/05/31                  | 1851:20                  | 1852:48                 | 127             | 93                  |                 | 2               |                          | I ,ND    |
| 7496           | 151 | 82/05/31                  | 2202:43                  | 2202:51                 | 20              | 84                  |                 | 15              |                          | I        |
| * 5138         | 153 | 82/06/02                  | 0058:54                  | 0059:07                 | 164             | 79                  |                 | 2               |                          |          |
| * 5139         | 153 | 82/06/02                  | 0110:23                  | 0111:22                 | 167             | 78                  |                 | 10              |                          | AX       |
| * 5140         | 153 | 82/06/02                  | 0711:38                  | 0711:49                 | 116             | 130                 | 1408            | 4               | 166, 2                   |          |
| * 5141         | 153 | 82/06/02                  | 0833:45                  | 0834:18                 | 40              | 96                  |                 | 2               |                          |          |
| * 5142         | 153 | 82/06/02                  | 0901:07                  | 0901:55                 | 66              | 160                 | 1949            | 5               | 166, 3                   |          |
| * 5143         | 153 | 82/06/02                  | 1213:09                  | 1213:41                 | 81              | 72                  |                 | 2               |                          |          |
| 7497           | 153 | 82/06/02                  | 1257:25                  | 1258:44                 | 187             | 73                  |                 | 2               |                          | I ,ES    |
| * 5144         | 153 | 82/06/02                  | 1527:27                  | 1605:27                 | 3062            | 85                  |                 | 2               | 166, 4                   | IN       |
| * 5145         | 153 | 82/06/02                  | 1643:31                  | 1643:48                 | 59              | 150                 | 1980            | 2               | 166, 5                   |          |
| * 5146         | 153 | 82/06/02                  | 1650:01                  | 1650:37                 | 111             | 217                 | 5222            | 2               | 166, 5                   |          |
| * 5147         | 153 | 82/06/02                  | 1659:53                  | 1659:57                 | 11              | 91                  |                 | 2               |                          |          |
| * 5148         | 153 | 82/06/02                  | 2004:58                  | 2006:24                 | 137             | 63                  |                 | 2               |                          |          |
| * 5149         | 153 | 82/06/02                  | 2255:11                  | 2255:57                 | 119             | 410                 | 7004            | 4               | 166, 6                   |          |
| * 5150         | 154 | 82/06/03                  | 0217:14                  | 0217:45                 | 109             | 83                  |                 | 2               |                          |          |
| * 5151         | 154 | 82/06/03                  | 0320:08                  | 0320:44                 | 90              | 199                 | 4084            | 2               | 166, 7                   |          |
| * 5152         | 154 | 82/06/03                  | 0322:04                  | 0327:38                 | 806             | 3194                | 1.79E+05        | 5               | 166, 7                   | FS       |
| * 5153         | 154 | 82/06/03                  | 0336:25                  | 0338:09                 | 162             | 87                  |                 | 2               |                          |          |
| * 5154         | 154 | 82/06/03                  | 0348:29                  | 0348:44                 | 39              | 59                  |                 | 2               |                          |          |
| 7498           | 154 | 82/06/03                  | 0537:06                  | 0537:22                 | 28              | 80                  |                 | 2               |                          | I        |
| * 5155         | 154 | 82/06/03                  | 0820:25                  | 0820:44                 | 38              | 74                  |                 | 2               |                          |          |
| * 5156         | 154 | 82/06/03                  | 0830:10                  | 0837:21                 | 1353            | 1411                | 2.23E+05        | 5               | 166, 8                   | M1,FS    |
| * 5157         | 154 | 82/06/03                  | 1140:32                  | 1143:31                 | 1449            | 213791              | 4.50E+07        | 15              | 166, 9                   | EN       |
| * 5158         | 154 | 82/06/03                  | 1241:43                  | 1243:45                 | 159             | 77                  |                 | 2               |                          | ES,AX    |
| * 5159         | 154 | 82/06/03                  | 1633:55                  | 1634:00                 | 24              | 147                 | 562             | 2               | 166, 10                  |          |
| * 5160         | 154 | 82/06/03                  | 1735:51                  | 1736:19                 | 265             | 190                 | 6367            | 2               | 166, 11                  | DG       |
| * 5161         | 154 | 82/06/03                  | 2101:47                  | 2101:55                 | 24              | 64                  |                 | 2               |                          |          |
| * 5162         | 154 | 82/06/03                  | 2128:08                  | 2128:38                 | 120             | 1198                | 24122           | 7               | 166, 12                  |          |
| * 5163         | 155 | 82/06/04                  | 0011:31                  | 0031:26                 | 1968            | 3590                | 1.20E+06        | 8               | 703, 37                  | I ,EN,FS |
| * 5164         | 155 | 82/06/04                  | 0214:37                  | 0215:31                 | 125             | 69                  |                 | 2               |                          | AX       |
| * 5165         | 155 | 82/06/04                  | 0259:03                  | 0259:07                 | 293             | 443                 | 31964           | 4               | 166, 14                  | SA       |
| * 5166         | 155 | 82/06/04                  | 0320:30                  | 0320:37                 | 14              | 69                  |                 | 2               |                          |          |
| * 5167         | 155 | 82/06/04                  | 0631:35                  | 0631:42                 | 201             | 493                 | 19006           | 4               | 166, 15                  |          |
| * 5168         | 155 | 82/06/04                  | 0805:54                  | 0806:02                 | 30              | 291                 | 1311            | 13              | 166, 16                  |          |
| * 5169         | 155 | 82/06/04                  | 0833:48                  | 0834:05                 | 60              | 258                 | 1759            | 3               | 167, 1                   |          |
| * 5170         | 155 | 82/06/04                  | 0936:38                  | 0936:56                 | 687             | 97                  | 7353            | 2               | 167, 2                   | SA,EW    |
| * 5171         | 155 | 82/06/04                  | 0952:14                  | 0952:23                 | 172             | 120                 | 2677            | 2               | 167, 2                   | EW       |
| * 5172         | 155 | 82/06/04                  | 1001:35                  | 1013:27                 | 751             | 109                 | 8701            | 2               | 167, 2                   |          |
| * 5173         | 155 | 82/06/04                  | 1311:50                  | 1313:07                 | 169             | 251                 | 7409            | 4               | 167, 3                   | EW       |
| * 5174         | 155 | 82/06/04                  | 1317:47                  | 1323:55                 | 381             | 213                 | 8721            | 2               | 167, 3                   | EN,EW    |
| * 5175         | 155 | 82/06/04                  | 1428:29                  | 1428:35                 | 490             | 709                 | 64448           | 2               | 167, 4                   | SA       |
| * 5176         | 155 | 82/06/04                  | 1447:00                  | 1447:18                 | 33              | 1209                | 4497            | 7               | 167, 4                   |          |
| * 5177         | 155 | 82/06/04                  | 1534:47                  | 1535:15                 | 64              | 60                  |                 | 2               |                          |          |
| * 5178         | 155 | 82/06/04                  | 1549:45                  | 1550:15                 | 77              | 70                  |                 | 2               |                          |          |
| * 5179         | 155 | 82/06/04                  | 1731:15                  | 1731:41                 | 57              | 69                  |                 | 2               |                          |          |
| * 5180         | 155 | 82/06/04                  | 1740:05                  | 1741:45                 | 153             | 127                 | 1787            | 4               | 167, 5                   |          |
| * 5181         | 155 | 82/06/04                  | 1902:34                  | 1903:22                 | 65              | 64                  |                 | 2               |                          |          |
| * 5182         | 155 | 82/06/04                  | 1912:16                  | 1917:51                 | 898             | 1497                | 1.44E+05        | 13              | 167, 6                   | M1,FS    |
| * 5183         | 155 | 82/06/04                  | 2024:49                  | 2029:39                 | 780             | 135                 | 15752           | 2               | 167, 7                   |          |
| * 5184         | 155 | 82/06/04                  | 2217:04                  | 2217:16                 | 19              | 72                  |                 | 2               |                          |          |
| * 5185         | 155 | 82/06/04                  | 2241:46                  | 2242:11                 | 174             | 68                  |                 | 2               |                          |          |
| * 5186         | 155 | 82/06/04                  | 2246:06                  | 2246:26                 | 51              | 71                  |                 | 2               |                          |          |
| * 5187         | 156 | 82/06/05                  | 0014:44                  | 0016:41                 | 168             | 79                  |                 | 2               |                          |          |
| * 5188         | 156 | 82/06/05                  | 0027:39                  | 0028:23                 | 72              | 169                 | 4047            | 2               | 167, 8                   |          |
| * 5189         | 156 | 82/06/05                  | 0124:26                  | 0128:54                 | 1141            | 18017               | 1.04E+06        | 12              | 167, 9                   | M1,DG,FS |
| * 5190         | 156 | 82/06/05                  | 0245:40                  | 0249:11                 | 732             | 470                 | 55170           | 2               | 167, 10                  |          |
| * 5191         | 156 | 82/06/05                  | 0306:36                  | 0315:13                 | 1868            | 2843                | 8.32E+05        | 3               | 167, 10                  | M1,EN    |
| * 5192         | 156 | 82/06/05                  | 0613:31                  | 0616:07                 | 2120            | 20434               | 3.02E+06        | 12              | 167, 11                  | M1,EN    |
| * 5193         | 156 | 82/06/05                  | 0741:34                  | 0741:50                 | 172             | 97                  |                 | 2               |                          |          |
| * 5194         | 156 | 82/06/05                  | 0751:46                  | 0752:36                 | 90              | 70                  |                 | 2               |                          |          |
| * 5195         | 156 | 82/06/05                  | 0956:46                  | 0957:43                 | 160             | 131                 | 3978            | 2               | 167, 12                  |          |
| 7499           | 156 | 82/06/05                  | 1105:06                  | 1108:36                 | 320             | 115                 | 4195            | 2               | 231, 2                   | I        |
| 7500           | 156 | 82/06/05                  | 1113:29                  | 1114:16                 | 113             | 392                 | 7759            | 3               | 231, 3                   | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 5196         | 156 | 82/06/05                  | 1239:36                  | 1240:24                 | 201             | 122                 | 2959            | 2               | 167, 13                  |          |
| * 5197         | 156 | 82/06/05                  | 1423:49                  | 1428:54                 | 612             | 209                 | 10794           | 2               | 167, 14                  |          |
| * 5198         | 156 | 82/06/05                  | 1441:37                  | 1441:45                 | 47              | 67                  |                 | 2               |                          |          |
| * 5199         | 156 | 82/06/05                  | 1519:25                  | 1529:18                 | 1520            | 10152               | 1.39E+06        | 5               | 167, 15                  | M1       |
| * 5200         | 156 | 82/06/05                  | 1549:30                  | 1549:47                 | 44              | 460                 | 3100            | 3               | 167, 15                  |          |
| * 5201         | 156 | 82/06/05                  | 1552:14                  | 1553:56                 | 296             | 1121                | 29249           | 4               | 167, 15                  |          |
| * 5202         | 156 | 82/06/05                  | 1707:41                  | 1708:13                 | 55              | 79                  |                 | 2               |                          |          |
| * 5203         | 156 | 82/06/05                  | 1720:39                  | 1722:10                 | 299             | 247                 | 10585           | 2               | 167, 16                  |          |
| * 5204         | 156 | 82/06/05                  | 1727:21                  | 1729:25                 | 298             | 108                 | 8375            | 2               | 167, 16                  |          |
| * 5205         | 156 | 82/06/05                  | 1737:57                  | 1739:14                 | 214             | 166                 | 9545            | 2               | 167, 10                  | SG       |
| * 5206         | 156 | 82/06/05                  | 1751:04                  | 1751:59                 | 142             | 98                  |                 | 2               |                          |          |
| 7501           | 156 | 82/06/05                  | 1853:12                  | 1853:30                 | 112             | 74                  |                 | 2               |                          | I        |
| * 5207         | 156 | 82/06/05                  | 2004:28                  | 2010:00                 | 820             | 466                 | 1.37E+05        | 2               | 168, 1                   | SN,DG    |
| * 5208         | 156 | 82/06/05                  | 2044:16                  | 2049:07                 | 705             | 472                 | 33358           | 2               | 168, 1                   | EG       |
| 7502           | 156 | 82/06/05                  | 2059:14                  | 2059:22                 | 19              | 52                  |                 | 2               |                          | I        |
| 7503           | 156 | 82/06/05                  | 2316:08                  | 2316:22                 | 16              | 72                  |                 | 2               |                          | I        |
| 7504           | 156 | 82/06/05                  | 2318:16                  | 2318:57                 | 308             | 386                 | 12207           | 3               | 231, 3                   | I        |
| * 5209         | 157 | 82/06/06                  | 0253:51                  | 0255:04                 | 175             | 68                  |                 | 2               |                          |          |
| * 5210         | 157 | 82/06/06                  | 0256:56                  | 0257:38                 | 156             | 66                  |                 | 2               |                          |          |
| * 5211         | 157 | 82/06/06                  | 0305:37                  | 0307:40                 | 382             | 368                 | 30423           | 2               | 168, 2                   |          |
| * 5212         | 157 | 82/06/06                  | 0620:29                  | 0620:52                 | 90              | 84                  |                 | 2               |                          |          |
| * 5213         | 157 | 82/06/06                  | 0912:19                  | 0912:28                 | 30              | 70                  |                 | 2               |                          |          |
| * 5214         | 157 | 82/06/06                  | 1104:03                  | 1104:56                 | 173             | 142                 | 3415            | 2               | 168, 3                   |          |
| * 5215         | 157 | 82/06/06                  | 1249:29                  | 1249:51                 | 81              | 79                  |                 | 2               |                          |          |
| * 5216         | 157 | 82/06/06                  | 1328:59                  | 1332:34                 | 427             | 190                 | 17148           | 2               | 168, 4                   | SN,ES    |
| * 5217         | 157 | 82/06/06                  | 1419:41                  | 1422:39                 | 501             | 2681                | 2.47E+05        | 4               | 168, 5                   | M1,EN    |
| * 5218         | 157 | 82/06/06                  | 1506:02                  | 1506:44                 | 62              | 82                  |                 | 2               |                          |          |
| * 5219         | 157 | 82/06/06                  | 1513:18                  | 1513:31                 | 49              | 65                  |                 | 2               |                          |          |
| * 5220         | 157 | 82/06/06                  | 1636:48                  | 1639:21                 | 3691            | 60382               | 1.40E+07        | 9               | 168, 6                   | M1,SN,EN |
| * 5221         | 157 | 82/06/06                  | 1814:06                  | 1814:44                 | 39              | 495                 | 11829           | 7               | 168, 7                   | EG       |
| 6636           | 157 | 82/06/06                  | 1902:40                  | 1903:09                 | 104             | 114                 | 1827            | 2               | 209, 9                   | I        |
| * 5222         | 157 | 82/06/06                  | 2158:37                  | 2159:08                 | 109             | 267                 | 3748            | 3               | 168, 8                   |          |
| * 5223         | 157 | 82/06/06                  | 2205:07                  | 2206:20                 | 234             | 79                  | 2199            | 2               | 168, 8                   |          |
| * 5224         | 157 | 82/06/06                  | 2302:04                  | 2302:11                 | 67              | 79                  |                 | 2               |                          |          |
| * 5225         | 157 | 82/06/06                  | 2344:20                  | 2345:26                 | 213             | 84                  | 1294            | 2               | 168, 9                   |          |
| * 5226         | 158 | 82/06/07                  | 0851:04                  | 0851:29                 | 51              | 118                 | 809             | 2               | 168, 10                  |          |
| * 5227         | 158 | 82/06/07                  | 1030:22                  | 1031:07                 | 72              | 81                  |                 | 2               |                          |          |
| * 5228         | 158 | 82/06/07                  | 1314:00                  | 1314:03                 | 191             | 81                  |                 | 2               |                          |          |
| * 5229         | 158 | 82/06/07                  | 1337:30                  | 1344:54                 | 877             | 385                 | 46573           | 2               | 168, 11                  | EW       |
| * 5230         | 158 | 82/06/07                  | 1522:25                  | 1522:36                 | 37              | 59                  |                 | 2               |                          | SN,EW    |
| 7505           | 158 | 82/06/07                  | 2117:37                  | 2119:07                 | 163             | 128                 | 4601            | 2               | 231, 4                   | I        |
| * 5231         | 158 | 82/06/07                  | 2327:58                  | 2331:05                 | 444             | 82                  | 4237            | 3               | 168, 12                  |          |
| * 5232         | 159 | 82/06/08                  | 0352:40                  | 0353:01                 | 58              | 64                  |                 | 2               |                          |          |
| * 5233         | 159 | 82/06/08                  | 0540:16                  | 0540:33                 | 32              | 87                  |                 | 2               |                          |          |
| * 5234         | 159 | 82/06/08                  | 0550:15                  | 0550:57                 | 198             | 193                 | 6743            | 2               | 168, 13                  |          |
| * 5235         | 159 | 82/06/08                  | 1213:54                  | 1214:35                 | 68              | 218                 | 3241            | 4               | 168, 14                  |          |
| * 5236         | 159 | 82/06/08                  | 2000:32                  | 2002:16                 | 259             | 1517                | 86927           | 10              | 168, 15                  | ND       |
| * 5237         | 159 | 82/06/08                  | 2008:37                  | 2009:13                 | 89              | 82                  |                 | 3               |                          |          |
| * 5238         | 160 | 82/06/09                  | 0321:55                  | 0322:30                 | 93              | 81                  |                 | 2               |                          |          |
| 7506           | 160 | 82/06/09                  | 0956:35                  | 0956:51                 | 21              | 91                  |                 | 2               |                          | I        |
| * 5239         | 160 | 82/06/09                  | 1029:37                  | 1029:57                 | 112             | 101                 | 1257            | 2               | 168, 16                  |          |
| * 5240         | 160 | 82/06/09                  | 1134:53                  | 1136:34                 | 253             | 528                 | 26617           | 2               | 169, 1                   |          |
| * 5241         | 160 | 82/06/09                  | 1200:51                  | 1201:38                 | 135             | 60                  |                 | 2               |                          |          |
| * 5242         | 160 | 82/06/09                  | 2220:52                  | 2223:17                 | 417             | 1032                | 72131           | 4               | 169, 2                   |          |
| * 5243         | 160 | 82/06/09                  | 2232:34                  | 2235:49                 | 295             | 278                 | 6284            | 3               | 169, 2                   |          |
| * 5244         | 160 | 82/06/09                  | 2242:25                  | 2249:20                 | 1700            | 316                 | 94761           | 2               | 169, 2                   | SG       |
| * 5245         | 161 | 82/06/10                  | 0027:12                  | 0027:46                 | 66              | 138                 | 1514            | 2               | 169, 3                   |          |
| * 5246         | 161 | 82/06/10                  | 0214:09                  | 0214:55                 | 186             | 479                 | 12533           | 2               | 169, 4                   |          |
| * 5247         | 161 | 82/06/10                  | 0332:04                  | 0333:54                 | 110             | 60                  |                 | 2               |                          |          |
| * 5248         | 161 | 82/06/10                  | 0504:53                  | 0505:19                 | 79              | 82                  |                 | 2               |                          |          |
| * 5249         | 161 | 82/06/10                  | 1848:38                  | 1851:56                 | 243             | 147                 | 4027            | 3               | 169, 5                   |          |
| * 5250         | 161 | 82/06/10                  | 1931:06                  | 1940:25                 | 919             | 120                 | 9784            | 2               | 169, 6                   | ND       |
| * 5251         | 161 | 82/06/10                  | 2249:08                  | 2250:10                 | 152             | 65                  |                 | 2               |                          |          |
| * 5252         | 162 | 82/06/11                  | 0431:50                  | 0432:06                 | 57              | 83                  |                 | 2               |                          |          |
| * 5253         | 162 | 82/06/11                  | 0639:11                  | 0645:39                 | 713             | 708                 | 1.45E+05        | 3               | 169, 7                   |          |
| * 5254         | 162 | 82/06/11                  | 0940:37                  | 0941:32                 | 123             | 69                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| * 5255         | 162 | 82/06/11                  | 0952:50                  | 0953:18                 | 40              | 88                  |                 | 2               |                          |       |
| * 5256         | 162 | 82/06/11                  | 1108:55                  | 1109:23                 | 140             | 830                 | 22377           | 4               | 169, 8                   |       |
| * 5257         | 162 | 82/06/11                  | 1130:02                  | 1131:05                 | 112             | 113                 | 2855            | 2               | 169, 9                   |       |
| 7507           | 162 | 82/06/11                  | 1435:56                  | 1436:37                 | 152             | 107                 | 2953            | 2               | 231, 5                   | I     |
| 7508           | 162 | 82/06/11                  | 1442:20                  | 1443:45                 | 161             | 66                  |                 | 2               |                          | I     |
| 7509           | 162 | 82/06/11                  | 1718:34                  | 1718:39                 | 29              | 91                  |                 | 2               |                          | I     |
| * 5258         | 162 | 82/06/11                  | 1723:22                  | 1724:16                 | 135             | 86                  |                 | 2               |                          |       |
| * 5259         | 162 | 82/06/11                  | 1836:23                  | 1842:44                 | 753             | 97                  | 7973            | 2               | 169, 10                  |       |
| * 5260         | 162 | 82/06/11                  | 1854:38                  | 1855:45                 | 154             | 96                  |                 | 2               |                          |       |
| * 5261         | 162 | 82/06/11                  | 2009:17                  | 2009:30                 | 40              | 66                  |                 | 2               |                          |       |
| * 5262         | 162 | 82/06/11                  | 2021:11                  | 2021:28                 | 32              | 72                  |                 | 2               |                          |       |
| * 5263         | 162 | 82/06/11                  | 2054:04                  | 2054:09                 | 40              | 62                  |                 | 2               |                          |       |
| * 5264         | 162 | 82/06/11                  | 2155:33                  | 2156:25                 | 101             | 72                  |                 | 2               |                          |       |
| * 5265         | 162 | 82/06/11                  | 2203:41                  | 2205:08                 | 197             | 160                 | 2141            | 2               | 169, 11                  |       |
| * 5266         | 162 | 82/06/11                  | 2225:50                  | 2226:13                 | 79              | 74                  |                 | 2               |                          |       |
| * 5267         | 162 | 82/06/11                  | 2239:23                  | 2240:06                 | 63              | 60                  |                 | 2               |                          |       |
| 7510           | 162 | 82/06/11                  | 2328:33                  | 2329:11                 | 389             | 2239                | 84384           | 7               | 231, 6                   | I ,FS |
| * 5268         | 163 | 82/06/12                  | 0143:52                  | 0144:33                 | 81              | 122                 | 2121            | 2               | 169, 12                  |       |
| * 5269         | 163 | 82/06/12                  | 0149:55                  | 0150:31                 | 58              | 324                 | 6087            | 3               |                          |       |
| * 5270         | 163 | 82/06/12                  | 0228:11                  | 0228:46                 | 523             | 367                 | 20536           | 4               | 169, 13                  | SN    |
| * 5271         | 163 | 82/06/12                  | 0245:22                  | 0247:59                 | 257             | 1456                | 52130           | 8               | 169, 13                  |       |
| * 5272         | 163 | 82/06/12                  | 0436:23                  | 0436:53                 | 51              | 88                  |                 | 2               |                          |       |
| * 5273         | 163 | 82/06/12                  | 0439:51                  | 0440:05                 | 148             | 84                  |                 | 2               |                          |       |
| * 5274         | 163 | 82/06/12                  | 0545:45                  | 0545:57                 | 1753            | 489                 | 2.09E+05        | 2               | 169, 14                  |       |
| * 5275         | 163 | 82/06/12                  | 0738:45                  | 0739:09                 | 54              | 73                  |                 | 2               |                          |       |
| * 5276         | 163 | 82/06/12                  | 1037:15                  | 1038:36                 | 368             | 93                  | 7604            | 2               | 169, 15                  | SN    |
| * 5277         | 163 | 82/06/12                  | 1053:22                  | 1054:02                 | 54              | 71                  |                 | 2               |                          |       |
| * 5278         | 163 | 82/06/12                  | 1101:01                  | 1101:16                 | 76              | 69                  |                 | 2               |                          |       |
| * 5279         | 163 | 82/06/12                  | 1110:24                  | 1112:39                 | 612             | 2174                | 1.94E+05        | 7               | 169, 15                  |       |
| 7511           | 163 | 82/06/12                  | 1253:22                  | 1253:32                 | 25              | 76                  |                 | 2               |                          | I     |
| 7512           | 163 | 82/06/12                  | 1332:22                  | 1333:31                 | 159             | 108                 | 3707            | 2               | 231, 7                   | I ,SN |
| 7513           | 163 | 82/06/12                  | 1510:20                  | 1512:54                 | 407             | 583                 | 69851           | 4               | 231, 8                   | I     |
| 7514           | 163 | 82/06/12                  | 1535:51                  | 1537:22                 | 483             | 440                 | 32860           | 4               | 231, 8                   | I     |
| 7515           | 163 | 82/06/12                  | 1602:31                  | 1602:53                 | 48              | 59                  |                 | 2               |                          | I     |
| 7516           | 163 | 82/06/12                  | 1641:57                  | 1643:24                 | 248             | 133                 | 8415            | 2               | 231, 9                   | I     |
| * 5280         | 163 | 82/06/12                  | 1736:14                  | 1737:39                 | 279             | 647                 | 30013           | 5               | 169, 16                  |       |
| * 5281         | 163 | 82/06/12                  | 1817:58                  | 1819:34                 | 1583            | 392                 | 75384           | 2               | 170, 1                   |       |
| * 5282         | 163 | 82/06/12                  | 1846:34                  | 1855:57                 | 1372            | 906                 | 1.78E+05        | 5               | 170, 1                   |       |
| * 5283         | 163 | 82/06/12                  | 2000:56                  | 2001:49                 | 70              | 109                 | 668             | 2               | 170, 2                   |       |
| * 5284         | 163 | 82/06/12                  | 2015:49                  | 2016:00                 | 27              | 457                 | 4049            | 5               | 170, 3                   | FS    |
| * 5285         | 163 | 82/06/12                  | 2026:56                  | 2029:43                 | 335             | 76                  | 3192            | 2               | 170, 4                   |       |
| * 5286         | 163 | 82/06/12                  | 2042:45                  | 2042:52                 | 40              | 79                  |                 | 2               |                          |       |
| * 5287         | 163 | 82/06/12                  | 2046:46                  | 2047:21                 | 75              | 75                  |                 | 2               | 170, 5                   |       |
| * 5288         | 163 | 82/06/12                  | 2148:10                  | 2148:42                 | 56              | 112                 | 768             | 2               | 170, 5                   |       |
| * 5289         | 163 | 82/06/12                  | 2158:35                  | 2159:59                 | 100             | 99                  |                 | 2               |                          |       |
| * 5290         | 163 | 82/06/12                  | 2318:48                  | 2319:19                 | 81              | 129                 | 1977            | 2               | 170, 6                   |       |
| * 5291         | 163 | 82/06/12                  | 2322:51                  | 2324:41                 | 167             | 121                 | 2036            | 2               | 170, 6                   |       |
| 7517           | 164 | 82/06/13                  | 0050:46                  | 0051:04                 | 52              | 80                  |                 | 2               |                          | I     |
| * 5292         | 164 | 82/06/13                  | 0254:18                  | 0254:23                 | 17              | 187                 | 340             | 2               | 170, 7                   |       |
| * 5293         | 164 | 82/06/13                  | 0256:54                  | 0257:04                 | 88              | 72                  |                 | 2               |                          |       |
| * 5294         | 164 | 82/06/13                  | 0259:32                  | 0259:51                 | 133             | 78                  |                 | 2               |                          |       |
| * 5295         | 164 | 82/06/13                  | 0529:06                  | 0530:43                 | 360             | 125                 | 5717            | 2               | 170, 8                   | SN    |
| * 5296         | 164 | 82/06/13                  | 0733:43                  | 0734:15                 | 57              | 86                  |                 | 2               |                          |       |
| * 5297         | 164 | 82/06/13                  | 0735:32                  | 0736:37                 | 88              | 119                 | 1429            | 2               | 170, 9                   | ND    |
| * 5298         | 164 | 82/06/13                  | 0927:19                  | 0929:22                 | 182             | 93                  |                 | 2               |                          |       |
| 7518           | 164 | 82/06/13                  | 1020:16                  | 1021:33                 | 2722            | 893                 | 5.00E+05        | 2               | 231, 10                  | I ,SA |
| * 5299         | 164 | 82/06/13                  | 1210:51                  | 1211:25                 | 114             | 71                  |                 | 2               |                          |       |
| * 5300         | 164 | 82/06/13                  | 1400:48                  | 1401:09                 | 71              | 71                  |                 | 2               |                          |       |
| * 5301         | 164 | 82/06/13                  | 1405:46                  | 1406:39                 | 108             | 206                 | 2674            | 5               | 170, 10                  |       |
| * 5302         | 164 | 82/06/13                  | 1545:07                  | 1545:54                 | 91              | 73                  |                 | 2               |                          |       |
| * 5303         | 164 | 82/06/13                  | 1652:35                  | 1653:23                 | 84              | 65                  |                 | 2               |                          |       |
| * 5304         | 164 | 82/06/13                  | 1700:43                  | 1701:10                 | 59              | 405                 | 7612            | 4               | 170, 11                  |       |
| * 5305         | 164 | 82/06/13                  | 1815:30                  | 1818:13                 | 1105            | 2300                | 2.64E+05        | 10              | 170, 12                  | FS    |
| * 5306         | 164 | 82/06/13                  | 1941:59                  | 1942:53                 | 92              | 357                 | 7257            | 4               | 170, 13                  | FS    |
| * 5307         | 164 | 82/06/13                  | 1945:43                  | 1946:00                 | 45              | 60                  |                 | 2               |                          |       |
| * 5308         | 164 | 82/06/13                  | 1948:16                  | 1950:44                 | 192             | 78                  |                 | 2               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS          |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------------|
| * 5309         | 164 | 82/06/13                  | 2003:41                  | 2004:02                 | 146             | 229                 | 6127            | 2               | 170, 14                  |                |
| * 5310         | 164 | 82/06/13                  | 2119:44                  | 2119:59                 | 37              | 100                 | 1278            | 2               |                          |                |
| * 5311         | 164 | 82/06/13                  | 2129:45                  | 2146:44                 | 2146            | 2619                | 4.91E+05        | 7               | 170, 15                  | ES,FS          |
| * 5312         | 164 | 82/06/13                  | 2310:19                  | 2335:59                 | 1960            | 1359                | 2.03E+05        | 7               | 170, 16                  | ES             |
| * 5313         | 165 | 82/06/14                  | 0026:57                  | 0030:08                 | 269             | 224                 | 7726            | 4               | 171, 1                   |                |
| * 5314         | 165 | 82/06/14                  | 0101:53                  | 0104:50                 | 286             | 127                 | 5026            | 2               | 171, 2                   |                |
| * 5315         | 165 | 82/06/14                  | 0115:06                  | 0116:02                 | 133             | 90                  |                 | 2               |                          |                |
| * 5316         | 165 | 82/06/14                  | 0154:24                  | 0154:24                 | 106             | 95                  |                 | 3               |                          | SN             |
| * 5317         | 165 | 82/06/14                  | 0207:11                  | 0207:29                 | 102             | 127                 | 1717            | 3               | 171, 3                   |                |
| * 5318         | 165 | 82/06/14                  | 0338:41                  | 0338:45                 | 88              | 261                 | 2801            | 4               | 171, 4                   | FS             |
| * 5319         | 165 | 82/06/14                  | 0347:38                  | 0348:28                 | 60              | 85                  |                 | 2               |                          |                |
| * 5320         | 165 | 82/06/14                  | 0422:52                  | 0423:40                 | 164             | 1223                | 26319           | 5               | 171, 5                   | DG,ND          |
| * 5321         | 165 | 82/06/14                  | 0511:44                  | 0511:57                 | 571             | 103                 | 8243            | 2               | 171, 6                   | SA,AX          |
| * 5322         | 165 | 82/06/14                  | 0559:38                  | 0559:57                 | 43              | 127                 | 450             | 2               | 171, 7                   |                |
| * 5323         | 165 | 82/06/14                  | 0711:10                  | 0711:22                 | 40              | 92                  |                 | 2               |                          |                |
| * 5324         | 165 | 82/06/14                  | 0731:11                  | 0731:36                 | 163             | 69                  |                 | 2               |                          |                |
| * 5325         | 165 | 82/06/14                  | 0737:57                  | 0738:21                 | 52              | 85                  |                 | 2               |                          |                |
| * 5326         | 165 | 82/06/14                  | 0847:52                  | 0848:11                 | 26              | 98                  |                 | 2               |                          |                |
| * 5327         | 165 | 82/06/14                  | 0914:36                  | 0914:54                 | 28              | 590                 | 3998            | 5               | 171, 8                   | FS             |
| * 5328         | 165 | 82/06/14                  | 1020:26                  | 1020:34                 | 80              | 86                  |                 | 2               |                          |                |
| * 5329         | 165 | 82/06/14                  | 1023:09                  | 1023:23                 | 67              | 76                  |                 | 2               |                          |                |
| * 5330         | 165 | 82/06/14                  | 1152:35                  | 1153:28                 | 127             | 77                  |                 | 2               |                          |                |
| * 5331         | 165 | 82/06/14                  | 1306:48                  | 1309:10                 | 892             | 857                 | 1.17E+05        | 7               | 171, 9                   |                |
| * 5332         | 165 | 82/06/14                  | 1355:50                  | 1356:00                 | 42              | 68                  |                 | 2               |                          |                |
| * 5333         | 165 | 82/06/14                  | 1439:26                  | 1441:45                 | 508             | 410                 | 37797           | 4               | 171, 10                  |                |
| * 5334         | 165 | 82/06/14                  | 1456:30                  | 1456:38                 | 25              | 196                 | 835             | 4               | 171, 10                  |                |
| * 5335         | 165 | 82/06/14                  | 1459:01                  | 1500:05                 | 181             | 77                  |                 | 2               |                          |                |
| * 5336         | 165 | 82/06/14                  | 1523:59                  | 1524:17                 | 41              | 73                  |                 | 2               |                          |                |
| * 5337         | 165 | 82/06/14                  | 1532:26                  | 1532:39                 | 24              | 232                 | 112             | 3               | 171, 11                  |                |
| * 5338         | 165 | 82/06/14                  | 1628:08                  | 1628:42                 | 61              | 279                 | 3473            | 3               | 171, 12                  | FS             |
| * 5339         | 165 | 82/06/14                  | 1705:56                  | 1706:06                 | 42              | 332                 | 2241            | 5               | 171, 13                  |                |
| * 5340         | 165 | 82/06/14                  | 1814:42                  | 1817:11                 | 435             | 582                 | 62144           | 3               | 171, 14                  |                |
| * 5341         | 165 | 82/06/14                  | 1826:45                  | 1828:28                 | 171             | 126                 | 4242            | 2               | 171, 14                  |                |
| * 5342         | 165 | 82/06/14                  | 1950:11                  | 1951:18                 | 200             | 98                  |                 | 5               |                          | AX             |
| * 5343         | 165 | 82/06/14                  | 2106:27                  | 2113:11                 | 733             | 111                 | 17741           | 2               | 171, 15                  |                |
| 7519           | 165 | 82/06/14                  | 2313:21                  | 2313:39                 | 52              | 100                 | 1183            | 2               |                          | I              |
| * 5344         | 166 | 82/06/15                  | 0030:10                  | 0030:40                 | 1014            | 25304               | 8.50E+05        | 15              | 172, 1                   | M5,FS          |
| * 5345         | 166 | 82/06/15                  | 0147:01                  | 0154:30                 | 595             | 149                 | 10310           | 2               | 172, 2                   |                |
| * 5346         | 166 | 82/06/15                  | 0217:46                  | 0220:00                 | 1319            | 3478                | 1.07E+06        | 4               | 172, 2                   | M5,EN          |
| * 5347         | 166 | 82/06/15                  | 0325:00                  | 0326:53                 | 751             | 130                 | 1.67E+05        | 2               | 172, 3                   |                |
| * 5348         | 166 | 82/06/15                  | 0356:11                  | 0356:23                 | 33              | 96                  |                 | 2               |                          |                |
| * 5349         | 166 | 82/06/15                  | 0711:38                  | 0712:10                 | 89              | 87                  |                 | 2               |                          |                |
| * 5350         | 166 | 82/06/15                  | 0810:16                  | 0813:28                 | 1219            | 726                 | 2.13E+05        | 5               | 172, 4                   | SA             |
| * 5351         | 166 | 82/06/15                  | 0844:23                  | 0844:44                 | 53              | 81                  |                 | 2               |                          |                |
| * 5352         | 166 | 82/06/15                  | 0850:35                  | 0850:50                 | 107             | 81                  |                 | 2               |                          |                |
| 6575           | 166 | 82/06/15                  | 0857:51                  | 0859:12                 | 101             | 56                  |                 | 2               |                          | I ,SG          |
| 6576           | 166 | 82/06/15                  | 1013:19                  | 1014:51                 | 123             | 64                  |                 | 2               |                          | I              |
| 6577           | 166 | 82/06/15                  | 1017:42                  | 1020:24                 | 4383            | 33320               | 7.63E+06        | 11              | 207, 11                  | M5,I ,IN,DG,FS |
| 6578           | 166 | 82/06/15                  | 1334:52                  | 1335:32                 | 234             | 84                  | 2683            | 2               | 207, 12                  | I              |
| 6583           | 166 | 82/06/15                  | 1420:48                  | 1422:45                 | 379             | 162                 | 11380           | 2               | 207, 14                  | I ,SN          |
| * 5353         | 166 | 82/06/15                  | 1444:38                  | 1444:58                 | 30              | 70                  |                 | 2               |                          |                |
| * 5354         | 166 | 82/06/15                  | 1446:27                  | 1447:37                 | 140             | 97                  |                 | 2               |                          |                |
| * 5355         | 166 | 82/06/15                  | 1451:11                  | 1451:48                 | 92              | 67                  |                 | 2               |                          |                |
| * 5356         | 166 | 82/06/15                  | 1508:18                  | 1512:39                 | 621             | 20609               | 1.81E+06        | 15              | 172, 5                   |                |
| * 5357         | 166 | 82/06/15                  | 1755:58                  | 1757:00                 | 168             | 64                  |                 | 3               |                          | AX             |
| * 5358         | 166 | 82/06/15                  | 1934:32                  | 1935:37                 | 144             | 71                  |                 | 4               |                          | AX             |
| * 5359         | 166 | 82/06/15                  | 2057:20                  | 2101:50                 | 765             | 782                 | 1.32E+05        | 3               | 172, 6                   |                |
| * 5360         | 166 | 82/06/15                  | 2241:14                  | 2241:36                 | 57              | 85                  |                 | 2               |                          |                |
| * 5361         | 167 | 82/06/16                  | 0035:06                  | 0035:17                 | 33              | 181                 | 664             | 3               | 172, 7                   |                |
| * 5362         | 167 | 82/06/16                  | 0043:21                  | 0043:28                 | 94              | 70                  |                 | 2               |                          |                |
| * 5363         | 167 | 82/06/16                  | 0158:11                  | 0158:20                 | 23              | 220                 | 1291            | 2               | 172, 8                   |                |
| * 5364         | 167 | 82/06/16                  | 0207:29                  | 0212:27                 | 1016            | 9983                | 3.19E+06        | 7               | 172, 8                   | EN,FS          |
| * 5365         | 167 | 82/06/16                  | 0300:47                  | 0301:00                 | 159             | 96                  |                 | 2               |                          | SN,DG          |
| * 5366         | 167 | 82/06/16                  | 0346:45                  | 0346:52                 | 21              | 72                  |                 | 2               |                          |                |
| * 5367         | 167 | 82/06/16                  | 0501:32                  | 0504:07                 | 217             | 139                 | 6899            | 2               | 172, 9                   |                |
| * 5368         | 167 | 82/06/16                  | 0620:14                  | 0620:20                 | 72              | 116                 | 1012            | 2               | 172, 10                  |                |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| * 5369         | 167 | 82/06/16                  | 0944:44                  | 0944:56                 | 24              | 61                  |                 | 2               |                          |           |
| * 5370         | 167 | 82/06/16                  | 1637:28                  | 1639:06                 | 102             | 90                  |                 | 2               |                          | EN        |
| * 5371         | 167 | 82/06/16                  | 2028:00                  | 2032:20                 | 1309            | 878                 | 1.21E+05        | 8               | 172, 11                  |           |
| * 5372         | 167 | 82/06/16                  | 2102:48                  | 2103:45                 | 174             | 75                  |                 | 2               |                          |           |
| * 5373         | 167 | 82/06/16                  | 2335:33                  | 2335:48                 | 221             | 297                 | 20859           | 2               | 172, 12                  | SN        |
| * 5374         | 168 | 82/06/17                  | 0245:27                  | 0245:43                 | 461             | 2228                | 1.52E+05        | 5               | 172, 13                  | SN        |
| 7520           | 168 | 82/06/17                  | 0619:41                  | 0620:23                 | 114             | 182                 | 6473            | 2               | 231, 11                  | I         |
| * 5375         | 168 | 82/06/17                  | 1048:19                  | 1051:20                 | 621             | 13904               | 1.02E+06        | 10              | 172, 14                  | M5,FS     |
| * 5376         | 168 | 82/06/17                  | 1101:49                  | 1102:02                 | 39              | 160                 | 1773            | 2               | 172, 14                  |           |
| * 5377         | 168 | 82/06/17                  | 1105:45                  | 1106:19                 | 70              | 204                 | 3827            | 2               | 172, 14                  |           |
| * 5378         | 168 | 82/06/17                  | 1114:00                  | 1114:45                 | 138             | 62                  |                 | 2               |                          |           |
| * 5379         | 168 | 82/06/17                  | 1307:18                  | 1307:50                 | 80              | 1170                | 13793           | 4               | 172, 15                  | M5,FS     |
| * 5380         | 168 | 82/06/17                  | 1312:40                  | 1313:24                 | 71              | 62                  |                 | 2               |                          |           |
| * 5381         | 168 | 82/06/17                  | 1408:47                  | 1409:09                 | 38              | 66                  |                 | 2               |                          |           |
| * 5382         | 168 | 82/06/17                  | 1411:24                  | 1411:53                 | 70              | 77                  |                 | 2               |                          |           |
| * 5383         | 168 | 82/06/17                  | 1545:29                  | 1546:58                 | 108             | 64                  |                 | 2               |                          |           |
| * 5384         | 168 | 82/06/17                  | 1609:49                  | 1610:18                 | 69              | 98                  |                 | 2               |                          |           |
| * 5385         | 168 | 82/06/17                  | 1616:17                  | 1616:31                 | 35              | 73                  |                 | 2               |                          |           |
| * 5386         | 168 | 82/06/17                  | 1621:20                  | 1622:33                 | 151             | 141                 | 5178            | 2               | 172, 16                  |           |
| * 5387         | 168 | 82/06/17                  | 1719:10                  | 1719:25                 | 48              | 76                  |                 | 2               |                          |           |
| * 5388         | 168 | 82/06/17                  | 1749:53                  | 1749:59                 | 17              | 76                  |                 | 2               |                          |           |
| * 5389         | 168 | 82/06/17                  | 1835:13                  | 1835:30                 | 124             | 579                 | 14230           | 5               | 173, 1                   |           |
| * 5390         | 168 | 82/06/17                  | 1849:48                  | 1851:56                 | 200             | 110                 | 4095            | 2               | 173, 2                   |           |
| * 5391         | 168 | 82/06/17                  | 1900:40                  | 1901:43                 | 145             | 82                  |                 | 2               |                          |           |
| * 5392         | 168 | 82/06/17                  | 2027:01                  | 2027:22                 | 46              | 277                 | 1928            | 2               | 173, 3                   | M5        |
| 7350           | 169 | 82/06/18                  | 0236:08                  | 0236:36                 | 77              | 169                 | 1593            | 2               | 231, 13                  | I         |
| * 5394         | 169 | 82/06/18                  | 0940:38                  | 0940:45                 | 38              | 124                 | 1032            | 2               | 173, 6                   |           |
| * 5395         | 169 | 82/06/18                  | 0945:36                  | 0947:08                 | 177             | 378                 | 26694           | 4               | 173, 6                   |           |
| * 5396         | 169 | 82/06/18                  | 1042:00                  | 1042:09                 | 30              | 79                  |                 | 2               |                          |           |
| * 5397         | 169 | 82/06/18                  | 1101:54                  | 1103:52                 | 548             | 1520                | 36526           | 5               | 173, 7                   | M5        |
| * 5398         | 169 | 82/06/18                  | 1214:17                  | 1214:40                 | 64              | 89                  |                 | 2               |                          |           |
| 6572           | 169 | 82/06/18                  | 1511:46                  | 1514:04                 | 458             | 2609                | 1.45E+05        | 7               | 207, 16                  | M5, I ,FS |
| * 5399         | 169 | 82/06/18                  | 1659:04                  | 1659:40                 | 171             | 122                 | 2846            | 2               | 173, 8                   |           |
| 7522           | 169 | 82/06/18                  | 1902:24                  | 1903:03                 | 68              | 80                  |                 | 2               |                          | I         |
| * 5400         | 169 | 82/06/18                  | 2136:42                  | 2140:29                 | 735             | 324                 | 15420           | 5               | 173, 9                   | DG        |
| * 5401         | 170 | 82/06/19                  | 0046:36                  | 0048:57                 | 277             | 596                 | 25363           | 4               | 173, 10                  | M5,FS,EW  |
| * 5402         | 170 | 82/06/19                  | 0107:25                  | 0107:38                 | 24              | 66                  |                 | 2               |                          | EW        |
| 7523           | 170 | 82/06/19                  | 0749:36                  | 0750:55                 | 270             | 414                 | 12374           | 3               | 231, 14                  | I         |
| * 5403         | 170 | 82/06/19                  | 1102:59                  | 1103:33                 | 60              | 423                 | 4593            | 4               | 173, 12                  | EW        |
| * 5432         | 170 | 82/06/19                  | 1324:41                  | 1325:30                 | 120             | 68                  |                 | 2               |                          | EW        |
| * 5433         | 170 | 82/06/19                  | 1332:05                  | 1333:07                 | 136             | 100                 | 3426            | 4               |                          | EW        |
| * 5404         | 170 | 82/06/19                  | 1510:36                  | 1511:58                 | 153             | 94                  |                 | 4               |                          |           |
| * 5405         | 170 | 82/06/19                  | 1517:01                  | 1518:31                 | 134             | 67                  |                 | 2               |                          |           |
| * 5406         | 170 | 82/06/19                  | 1526:02                  | 1526:16                 | 37              | 82                  |                 | 2               |                          |           |
| * 5407         | 170 | 82/06/19                  | 1641:45                  | 1642:43                 | 165             | 70                  |                 | 2               |                          |           |
| * 5408         | 170 | 82/06/19                  | 1716:47                  | 1717:30                 | 132             | 965                 | 16631           | 4               | 173, 13                  | ES,FS     |
| * 5409         | 170 | 82/06/19                  | 1816:13                  | 1816:57                 | 91              | 191                 | 2503            | 3               | 173, 14                  |           |
| * 5410         | 170 | 82/06/19                  | 1948:08                  | 1949:58                 | 818             | 1037                | 1.44E+05        | 5               | 173, 15                  | M5        |
| * 5411         | 171 | 82/06/20                  | 0024:17                  | 0024:54                 | 195             | 129                 | 3532            | 2               | 173, 16                  |           |
| * 5412         | 171 | 82/06/20                  | 0046:50                  | 0047:28                 | 58              | 71                  |                 | 2               |                          |           |
| * 5413         | 171 | 82/06/20                  | 0105:15                  | 0105:33                 | 39              | 69                  |                 | 2               |                          |           |
| * 5414         | 171 | 82/06/20                  | 0112:55                  | 0113:32                 | 411             | 13670               | 1.48E+05        | 10              | 174, 1                   | M5,FS     |
| * 5415         | 171 | 82/06/20                  | 0159:22                  | 0201:10                 | 1533            | 979                 | 1.77E+05        | 3               | 174, 2                   | SN,DG     |
| * 5416         | 171 | 82/06/20                  | 0252:10                  | 0253:00                 | 137             | 114                 | 2990            | 2               | 174, 2                   |           |
| * 5417         | 171 | 82/06/20                  | 0359:33                  | 0403:06                 | 330             | 5750                | 1.04E+05        | 8               | 174, 3                   | M5,FS     |
| * 5418         | 171 | 82/06/20                  | 0533:25                  | 0533:56                 | 116             | 73                  |                 | 2               |                          |           |
| 7524           | 171 | 82/06/20                  | 0652:36                  | 0653:32                 | 146             | 61                  |                 | 2               |                          | I         |
| 7525           | 171 | 82/06/20                  | 0659:32                  | 0700:18                 | 181             | 66                  |                 | 2               |                          | I         |
| * 5419         | 171 | 82/06/20                  | 1159:40                  | 1200:15                 | 588             | 6122                | 1.27E+05        | 8               | 174, 5                   | FS        |
| * 5420         | 171 | 82/06/20                  | 1314:49                  | 1315:42                 | 110             | 70                  |                 | 4               |                          |           |
| * 5421         | 171 | 82/06/20                  | 1453:19                  | 1454:16                 | 156             | 100                 | 4192            | 4               |                          |           |
| * 5422         | 171 | 82/06/20                  | 1458:46                  | 1459:15                 | 80              | 70                  |                 | 2               |                          |           |
| * 5423         | 171 | 82/06/20                  | 1529:29                  | 1532:32                 | 412             | 98                  | 4546            | 4               | 174, 6                   | AX        |
| * 5424         | 171 | 82/06/20                  | 1632:30                  | 1632:37                 | 154             | 67                  |                 | 2               |                          |           |
| * 5425         | 171 | 82/06/20                  | 1936:44                  | 1937:00                 | 38              | 79                  |                 | 2               |                          |           |
| * 5426         | 171 | 82/06/20                  | 2233:52                  | 2234:12                 | 775             | 216                 | 24245           | 2               | 174, 7                   |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS   |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------|
| * 5427         | 172 | 82/06/21                  | 0234:25                  | 0234:44                 | 55              | 64                  |                 | 2               |                          |         |
| * 5428         | 172 | 82/06/21                  | 0238:26                  | 0239:53                 | 112             | 60                  |                 | 2               |                          |         |
| * 5429         | 172 | 82/06/21                  | 0324:26                  | 0325:31                 | 173             | 88                  |                 | 2               |                          |         |
| * 5430         | 172 | 82/06/21                  | 0348:22                  | 0351:13                 | 279             | 163                 | 7716            | 2               | 174, 8                   |         |
| * 5431         | 172 | 82/06/21                  | 0355:26                  | 0355:43                 | 159             | 73                  |                 | 2               |                          |         |
| 7526           | 172 | 82/06/21                  | 0453:37                  | 0454:28                 | 730             | 133                 | 12899           | 2               | 231, 15                  | I       |
| 7527           | 172 | 82/06/21                  | 0634:09                  | 0641:54                 | 1933            | 151                 | 37883           | 2               | 231, 16                  | I       |
| 7528           | 172 | 82/06/21                  | 0850:30                  | 0851:09                 | 121             | 70                  |                 | 2               |                          | I       |
| * 5434         | 172 | 82/06/21                  | 1115:56                  | 1116:19                 | 679             | 114                 | 15184           | 2               | 174, 9                   | SG,EG   |
| 7529           | 172 | 82/06/21                  | 1323:38                  | 1324:06                 | 68              | 95                  |                 | 2               |                          | I       |
| 7530           | 172 | 82/06/21                  | 1512:10                  | 1519:52                 | 509             | 92                  | 5523            | 4               | 232, 1                   | I       |
| * 5435         | 172 | 82/06/21                  | 1610:11                  | 1614:53                 | 505             | 794                 | 1.15E+05        | 5               | 174, 10                  | SG      |
| * 5436         | 172 | 82/06/21                  | 1752:20                  | 1754:53                 | 187             | 84                  |                 | 2               |                          |         |
| * 5437         | 172 | 82/06/21                  | 1800:21                  | 1800:40                 | 60              | 81                  |                 | 2               |                          | DG      |
| * 5438         | 172 | 82/06/21                  | 1808:21                  | 1808:32                 | 57              | 98                  |                 | 2               |                          |         |
| 7531           | 172 | 82/06/21                  | 2127:33                  | 2127:46                 | 52              | 69                  |                 | 2               |                          | I       |
| 7532           | 172 | 82/06/21                  | 2225:35                  | 2227:22                 | 262             | 194                 | 16635           | 2               | 232, 2                   | I,EG    |
| 7533           | 172 | 82/06/21                  | 2246:02                  | 2303:17                 | 1286            | 20700               | 2.54E+06        | 8               | 232, 2                   | M5,I,ES |
| 7534           | 172 | 82/06/21                  | 2355:38                  | 2356:02                 | 46              | 91                  |                 | 2               |                          | I       |
| 7535           | 173 | 82/06/22                  | 0003:10                  | 0005:07                 | 302             | 96                  | 3567            | 2               | 232, 3                   | I       |
| 7536           | 173 | 82/06/22                  | 0009:33                  | 0009:38                 | 33              | 91                  |                 | 2               |                          | I       |
| 7537           | 173 | 82/06/22                  | 0529:50                  | 0533:45                 | 411             | 339                 | 52158           | 2               | 232, 5                   | I,EN    |
| 7538           | 173 | 82/06/22                  | 0624:36                  | 0625:22                 | 182             | 74                  |                 | 2               |                          | I       |
| 7539           | 173 | 82/06/22                  | 0642:23                  | 0642:41                 | 33              | 97                  |                 | 2               |                          | I       |
| 7540           | 173 | 82/06/22                  | 1017:39                  | 1018:42                 | 110             | 100                 | 2076            | 2               |                          | I       |
| * 5439         | 173 | 82/06/22                  | 1421:28                  | 1433:29                 | 1521            | 360                 | 1.12E+05        | 2               | 174, 11                  | EG      |
| 5440           | 173 | 82/06/22                  | 1723:22                  | 1724:12                 | 83              | 88                  |                 | 2               |                          |         |
| 5441           | 174 | 82/06/23                  | 0005:13                  | 0005:33                 | 380             | 1708                | 70548           | 4               | 174, 12                  | M5,FS   |
| 5442           | 174 | 82/06/23                  | 0328:36                  | 0329:30                 | 124             | 87                  |                 | 2               |                          |         |
| 5443           | 174 | 82/06/23                  | 0338:18                  | 0338:55                 | 286             | 182                 | 5611            | 2               | 174, 13                  |         |
| 5444           | 174 | 82/06/23                  | 0443:26                  | 0443:30                 | 39              | 75                  |                 | 2               |                          |         |
| 5445           | 174 | 82/06/23                  | 0634:42                  | 0652:42                 | 1284            | 414                 | 6.10E+05        | 2               | 174, 14                  | ND      |
| 7552           | 174 | 82/06/23                  | 0912:29                  | 0912:39                 | 17              | 72                  |                 | 2               |                          | I       |
| 5446           | 174 | 82/06/23                  | 1003:24                  | 1003:42                 | 53              | 286                 | 2955            | 4               | 174, 15                  |         |
| 5447           | 174 | 82/06/23                  | 1046:00                  | 1046:11                 | 27              | 210                 | 1484            | 4               | 174, 16                  |         |
| 5448           | 174 | 82/06/23                  | 1116:24                  | 1116:51                 | 71              | 67                  |                 | 2               |                          |         |
| 5449           | 174 | 82/06/23                  | 1402:33                  | 1404:13                 | 478             | 100                 | 9331            | 10              | 175, 1                   | AX      |
| 5450           | 174 | 82/06/23                  | 1433:53                  | 1434:03                 | 35              | 99                  |                 | 2               |                          |         |
| 5451           | 174 | 82/06/23                  | 1545:39                  | 1546:23                 | 154             | 78                  |                 | 2               |                          |         |
| 5452           | 174 | 82/06/23                  | 1549:37                  | 1549:44                 | 14              | 72                  |                 | 2               |                          |         |
| 5453           | 174 | 82/06/23                  | 1716:04                  | 1716:18                 | 45              | 113                 | 960             | 2               | 175, 2                   |         |
| 7556           | 174 | 82/06/23                  | 1839:39                  | 1841:32                 | 493             | 131                 | 18224           | 2               | 233, 2                   | I       |
| 5454           | 174 | 82/06/23                  | 1856:40                  | 1857:25                 | 89              | 367                 | 7580            | 5               | 175, 3                   |         |
| 5455           | 174 | 82/06/23                  | 1902:43                  | 1905:52                 | 632             | 268                 | 41232           | 2               | 175, 3                   |         |
| 5456           | 174 | 82/06/23                  | 2052:25                  | 2052:45                 | 92              | 75                  |                 | 2               |                          |         |
| 5457           | 174 | 82/06/23                  | 2329:03                  | 2331:10                 | 557             | 1041                | 98505           | 8               | 175, 4                   | M5      |
| 5458           | 175 | 82/06/24                  | 0232:31                  | 0232:51                 | 111             | 99                  |                 | 2               |                          |         |
| 5459           | 175 | 82/06/24                  | 0303:26                  | 0303:43                 | 70              | 78                  |                 | 2               |                          |         |
| 5460           | 175 | 82/06/24                  | 0307:39                  | 0308:15                 | 102             | 105                 | 1376            | 2               | 175, 6                   |         |
| 7557           | 175 | 82/06/24                  | 0410:36                  | 0411:51                 | 404             | 454                 | 25213           | 6               | 233, 3                   | I       |
| 7558           | 175 | 82/06/24                  | 0444:06                  | 0444:46                 | 68              | 781                 | 13129           | 5               | 233, 5                   | I       |
| 5461           | 175 | 82/06/24                  | 0744:27                  | 0745:54                 | 102             | 69                  |                 | 2               |                          |         |
| 5462           | 175 | 82/06/24                  | 1352:36                  | 1353:35                 | 121             | 74                  |                 | 2               |                          |         |
| 7559           | 175 | 82/06/24                  | 1404:37                  | 1404:51                 | 72              | 63                  |                 | 2               |                          | I       |
| 7560           | 175 | 82/06/24                  | 1524:16                  | 1526:56                 | 565             | 88                  | 8939            | 4               | 233, 5                   | I       |
| 5463           | 175 | 82/06/24                  | 1839:26                  | 1840:14                 | 86              | 71                  |                 | 2               |                          |         |
| 5464           | 175 | 82/06/24                  | 2155:45                  | 2156:13                 | 40              | 72                  |                 | 2               |                          |         |
| 5465           | 175 | 82/06/24                  | 2304:28                  | 2310:05                 | 998             | 115                 | 10271           | 2               | 175, 7                   |         |
| 5466           | 176 | 82/06/25                  | 0530:12                  | 0531:14                 | 163             | 109                 | 3960            | 2               | 175, 8                   |         |
| 5467           | 176 | 82/06/25                  | 0534:11                  | 0535:10                 | 119             | 187                 | 2417            | 3               | 175, 8                   |         |
| 5468           | 176 | 82/06/25                  | 1041:33                  | 1042:16                 | 80              | 60                  |                 | 2               |                          |         |
| 5469           | 176 | 82/06/25                  | 1045:41                  | 1046:34                 | 284             | 463                 | 28711           | 5               | 175, 9                   |         |
| 5470           | 176 | 82/06/25                  | 1655:26                  | 1656:11                 | 104             | 77                  |                 | 2               |                          |         |
| 5471           | 176 | 82/06/25                  | 1943:28                  | 1944:57                 | 162             | 1276                | 59937           | 5               | 175, 10                  |         |
| 5472           | 176 | 82/06/25                  | 2131:08                  | 2134:18                 | 1537            | 7791                | 1.27E+06        | 13              | 175, 11                  | M5,FS   |
| 5473           | 177 | 82/06/26                  | 0042:57                  | 0046:22                 | 1821            | 8678                | 2.48E+06        | 10              | 175, 12                  | M5,FS   |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS          |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------------|
| 5474           | 177 | 82/06/26                  | 0205:49                  | 0208:12                 | 190             | 385                 | 23914           | 5               | 175, 13                  | DG,ND          |
| 7561           | 177 | 82/06/26                  | 0911:54                  | 0912:25                 | 49              | 74                  |                 | 2               |                          | I              |
| 5475           | 177 | 82/06/26                  | 1453:06                  | 1455:18                 | 402             | 87                  | 5682            | 4               | 175, 14                  | AX             |
| 5476           | 177 | 82/06/26                  | 1925:00                  | 1926:24                 | 1062            | 263                 | 66899           | 2               | 175, 15                  | SN             |
| 5477           | 178 | 82/06/27                  | 0711:27                  | 0711:44                 | 74              | 92                  |                 | 2               |                          |                |
| 7562           | 178 | 82/06/27                  | 1020:21                  | 1021:30                 | 521             | 224                 | 27190           | 2               | 233, 6                   | I ,DG          |
| 7563           | 180 | 82/06/29                  | 1142:52                  | 1144:19                 | 142             | 119                 | 3965            | 5               | 233, 7                   | I              |
| 7564           | 184 | 82/07/03                  | 1738:48                  | 1739:18                 | 91              | 70                  | 1055            | 2               | 233, 8                   | I              |
| 7565           | 184 | 82/07/03                  | 1740:28                  | 1741:15                 | 270             | 216                 | 13539           | 2               | 233, 8                   | I              |
| 5478           | 186 | 82/07/05                  | 0609:41                  | 0610:33                 | 65              | 55                  |                 | 13              |                          | AX             |
| 5479           | 186 | 82/07/05                  | 2223:49                  | 2224:04                 | 37              | 66                  |                 | 2               |                          |                |
| 7566           | 188 | 82/07/07                  | 0050:33                  | 0050:54                 | 110             | 69                  |                 | 11              |                          | I              |
| 7567           | 188 | 82/07/07                  | 0407:51                  | 0408:21                 | 118             | 283                 | 8582            | 2               | 233, 9                   | I              |
| 7568           | 188 | 82/07/07                  | 0414:43                  | 0415:54                 | 270             | 280                 | 18542           | 2               | 233, 9                   | I              |
| 7569           | 188 | 82/07/07                  | 2006:30                  | 2008:49                 | 551             | 208                 | 16714           | 3               | 232, 13                  | I              |
| 7570           | 188 | 82/07/07                  | 2307:51                  | 2314:51                 | 600             | 204                 | 24533           | 3               | 232, 14                  | I              |
| 7571           | 189 | 82/07/08                  | 0222:07                  | 0224:50                 | 494             | 370                 | 25845           | 2               | 232, 15                  | I              |
| 7572           | 189 | 82/07/08                  | 0301:21                  | 0301:31                 | 30              | 69                  |                 | 2               |                          | I              |
| 7573           | 189 | 82/07/08                  | 0306:53                  | 0307:18                 | 50              | 163                 | 1929            | 3               | 232, 16                  | I              |
| 7574           | 189 | 82/07/08                  | 0353:28                  | 0354:24                 | 195             | 99                  |                 | 2               |                          | I              |
| 7575           | 189 | 82/07/08                  | 0411:49                  | 0416:15                 | 724             | 331                 | 60509           | 2               | 233, 10                  | I              |
| 7576           | 189 | 82/07/08                  | 0514:37                  | 0514:58                 | 526             | 125                 | 9784            | 2               | 233, 11                  | I              |
| 7577           | 189 | 82/07/08                  | 0725:06                  | 0725:49                 | 175             | 213                 | 5281            | 4               | 233, 12                  | I              |
| 7578           | 189 | 82/07/08                  | 0728:35                  | 0734:40                 | 612             | 256                 | 22193           | 4               | 233, 12                  | I              |
| 7579           | 189 | 82/07/08                  | 0745:27                  | 0745:36                 | 15              | 55                  |                 | 2               |                          | I              |
| 7580           | 189 | 82/07/08                  | 0905:08                  | 0905:53                 | 61              | 59                  |                 | 2               |                          | I              |
| 7581           | 189 | 82/07/08                  | 0908:58                  | 0909:22                 | 56              | 57                  |                 | 2               |                          | I              |
| 7582           | 189 | 82/07/08                  | 0910:26                  | 0911:07                 | 59              | 64                  |                 | 2               |                          | I              |
| 7583           | 189 | 82/07/08                  | 0913:04                  | 0913:08                 | 21              | 62                  |                 | 2               |                          | I              |
| 7584           | 189 | 82/07/08                  | 0914:06                  | 0914:19                 | 30              | 78                  |                 | 2               |                          | I              |
| 7585           | 189 | 82/07/08                  | 0916:07                  | 0916:28                 | 238             | 77                  | 2960            | 2               | 233, 13                  | I              |
| 7586           | 189 | 82/07/08                  | 0929:39                  | 0929:58                 | 28              | 51                  |                 | 2               |                          | I              |
| 7587           | 189 | 82/07/08                  | 1041:57                  | 1042:25                 | 54              | 104                 | 781             | 2               | 233, 14                  | I              |
| 7588           | 189 | 82/07/08                  | 1140:59                  | 1141:24                 | 45              | 90                  |                 | 2               |                          | I              |
| 7589           | 189 | 82/07/08                  | 1224:56                  | 1225:03                 | 18              | 61                  |                 | 2               |                          | I              |
| 7590           | 189 | 82/07/08                  | 1409:04                  | 1409:59                 | 69              | 230                 | 2238            | 3               | 233, 15                  | I              |
| 7591           | 189 | 82/07/08                  | 1537:21                  | 1537:38                 | 69              | 377                 | 4505            | 5               | 233, 16                  | I              |
| 7592           | 189 | 82/07/08                  | 1542:39                  | 1542:54                 | 25              | 89                  |                 | 2               |                          | I              |
| 7593           | 189 | 82/07/08                  | 1638:58                  | 1639:02                 | 6               | 66                  |                 | 2               |                          | I              |
| 7594           | 189 | 82/07/08                  | 1800:52                  | 1801:15                 | 103             | 93                  |                 | 2               |                          | I              |
| 7595           | 189 | 82/07/08                  | 1803:54                  | 1804:33                 | 69              | 79                  |                 | 2               |                          | I              |
| 7596           | 189 | 82/07/08                  | 1858:28                  | 1858:35                 | 11              | 73                  |                 | 2               |                          | I              |
| 7597           | 189 | 82/07/08                  | 2030:13                  | 2031:21                 | 410             | 246                 | 20109           | 3               | 234, 1                   | I ,SA          |
| 7598           | 189 | 82/07/08                  | 2106:10                  | 2108:44                 | 217             | 107                 | 3060            | 2               | 234, 2                   | I              |
| 6758           | 189 | 82/07/08                  | 2121:05                  | 2121:28                 | 49              | 116                 | 945             | 3               | 212, 5                   | I              |
| 6759           | 189 | 82/07/08                  | 2124:11                  | 2124:00                 | 48              | 64                  | 86              | 2               | 212, 5                   | I              |
| 7601           | 189 | 82/07/08                  | 2319:15                  | 2320:46                 | 333             | 205                 | 11150           | 2               | 234, 4                   | I              |
| 7602           | 189 | 82/07/08                  | 2333:23                  | 2333:43                 | 51              | 185                 | 2186            | 3               | 234, 5                   | I              |
| 7603           | 189 | 82/07/08                  | 2334:39                  | 2335:01                 | 71              | 62                  |                 | 2               |                          | I              |
| 7604           | 189 | 82/07/08                  | 2342:21                  | 2343:03                 | 162             | 87                  |                 | 2               |                          | I              |
| 6760           | 190 | 82/07/09                  | 0015:44                  | 0018:16                 | 1447            | 878                 | 68384           | 4               | 212, 6                   | I              |
| 6761           | 190 | 82/07/09                  | 0112:23                  | 0113:04                 | 50              | 54                  |                 | 2               |                          | I              |
| 6742           | 190 | 82/07/09                  | 0327:55                  | 0328:50                 | 105             | 70                  |                 | 2               |                          | I              |
| 6743           | 190 | 82/07/09                  | 0408:04                  | 0408:39                 | 146             | 79                  |                 | 2               |                          | I              |
| 6744           | 190 | 82/07/09                  | 0425:57                  | 0427:35                 | 274             | 123                 | 4549            | 2               | 211, 14                  | I              |
| 6745           | 190 | 82/07/09                  | 0519:40                  | 0519:50                 | 27              | 162                 | 652             | 4               | 211, 15                  | I              |
| 6746           | 190 | 82/07/09                  | 0546:27                  | 0547:24                 | 100             | 57                  |                 | 2               |                          | I              |
| 6747           | 190 | 82/07/09                  | 0550:12                  | 0550:23                 | 32              | 120                 | 828             | 2               |                          | I              |
| 6748           | 190 | 82/07/09                  | 0555:56                  | 0556:54                 | 530             | 893                 | 32474           | 6               | 211, 16                  | I              |
| 6749           | 190 | 82/07/09                  | 0713:06                  | 0714:47                 | 442             | 276                 | 34936           | 5               | 212, 1                   | I ,FS          |
| 6750           | 190 | 82/07/09                  | 0724:58                  | 0737:20                 | 6677            | 155330              | 3.93E+07        | 15              | 212, 1                   | MS,I ,EN,IN,FS |
| 5481           | 190 | 82/07/09                  | 0856:11                  | 0856:28                 | 35              | 166                 | 1366            | 2               |                          | EW             |
| 7605           | 190 | 82/07/09                  | 0945:24                  | 0946:51                 | 196             | 71                  |                 | 2               |                          | I              |
| 7606           | 190 | 82/07/09                  | 1023:04                  | 1023:59                 | 740             | 92                  | 27571           | 2               | 234, 6                   | I ,SA,DG       |
| 7607           | 190 | 82/07/09                  | 1045:32                  | 1046:45                 | 325             | 3277                | 77153           | 8               | 234, 6                   | MS,I           |
| 7608           | 190 | 82/07/09                  | 1122:44                  | 1125:41                 | 415             | 145                 | 13901           | 2               | 234, 7                   | I ,ES          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HH:MM:SS | PEAK<br>TIME<br>HH:MM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 5482           | 190 | 82/07/09                  | 1347:57                   | 1348:13                  | 40              | 102                 | 709             | 2               | 176, 1                   |        |
| 5483           | 190 | 82/07/09                  | 1528:36                   | 1530:16                  | 309             | 262                 | 13625           | 2               | 176, 2                   | FS     |
| 5484           | 190 | 82/07/09                  | 1617:53                   | 1619:24                  | 380             | 574                 | 36988           | 3               | 176, 3                   |        |
| 5485           | 190 | 82/07/09                  | 1703:34                   | 1703:58                  | 63              | 85                  |                 | 2               |                          |        |
| 5486           | 190 | 82/07/09                  | 1838:42                   | 1839:46                  | 391             | 139                 | 7678            | 2               | 176, 4                   |        |
| 5487           | 190 | 82/07/09                  | 2013:22                   | 2017:40                  | 616             | 451                 | 20394           | 4               | 176, 5                   | SG     |
| 5488           | 190 | 82/07/09                  | 2052:17                   | 2052:44                  | 186             | 161                 | 3279            | 2               | 176, 6                   |        |
| 5489           | 190 | 82/07/09                  | 2056:34                   | 2057:08                  | 117             | 96                  |                 | 2               | 176, 6                   |        |
| 5490           | 190 | 82/07/09                  | 2105:38                   | 2107:01                  | 529             | 57078               | 1.19E+06        | 15              | 176, 6                   | M5     |
| 5491           | 190 | 82/07/09                  | 2116:39                   | 2117:44                  | 103             | 74                  |                 | 2               | 176, 6                   |        |
| 5492           | 190 | 82/07/09                  | 2120:12                   | 2120:43                  | 106             | 60                  |                 | 2               | 176, 6                   |        |
| 5493           | 190 | 82/07/09                  | 2128:25                   | 2130:39                  | 183             | 96                  |                 | 2               | 176, 6                   |        |
| 5494           | 190 | 82/07/09                  | 2148:26                   | 2148:53                  | 77              | 188                 | 2949            | 2               | 176, 6                   |        |
| 5495           | 190 | 82/07/09                  | 2239:10                   | 2251:21                  | 1064            | 1283                | 1.64E+05        | 9               | 176, 7                   | M5     |
| 5496           | 190 | 82/07/09                  | 2303:01                   | 2304:09                  | 285             | 1200                | 58186           | 4               | 176, 7                   |        |
| 5497           | 190 | 82/07/09                  | 2324:00                   | 2324:17                  | 45              | 56                  |                 | 2               | 176, 7                   |        |
| 5498           | 190 | 82/07/09                  | 2326:27                   | 2326:44                  | 46              | 106                 | 638             | 2               | 176, 7                   |        |
| 5499           | 191 | 82/07/10                  | 0016:40                   | 0018:13                  | 160             | 90                  |                 | 2               |                          |        |
| 5500           | 191 | 82/07/10                  | 0022:42                   | 0029:05                  | 666             | 163                 | 9621            | 2               | 176, 8                   |        |
| 5501           | 191 | 82/07/10                  | 0035:56                   | 0036:55                  | 180             | 524                 | 11540           | 3               | 176, 8                   |        |
| 5502           | 191 | 82/07/10                  | 0135:22                   | 0138:09                  | 959             | 1145                | 2.11E+05        | 8               | 176, 9                   | M5     |
| 5503           | 191 | 82/07/10                  | 0158:04                   | 0200:21                  | 596             | 5979                | 4.00E+05        | 8               | 176, 9                   |        |
| 5504           | 191 | 82/07/10                  | 0315:50                   | 0317:03                  | 340             | 6260                | 81619           | 11              | 176, 11                  | M5     |
| 5505           | 191 | 82/07/10                  | 0407:46                   | 0408:26                  | 315             | 1369                | 31064           | 8               | 176, 12                  |        |
| 5506           | 191 | 82/07/10                  | 0446:52                   | 0447:03                  | 21              | 73                  |                 | 2               |                          |        |
| 5507           | 191 | 82/07/10                  | 0517:04                   | 0518:25                  | 121             | 73                  |                 | 2               |                          |        |
| 5508           | 191 | 82/07/10                  | 0534:59                   | 0535:34                  | 124             | 62                  |                 | 2               |                          |        |
| 5509           | 191 | 82/07/10                  | 0547:52                   | 0548:01                  | 104             | 95                  |                 | 2               |                          | ND     |
| 7609           | 191 | 82/07/10                  | 0622:58                   | 0623:31                  | 51              | 58                  |                 | 2               | 234, 8                   | I      |
| 7610           | 191 | 82/07/10                  | 0624:00                   | 0624:13                  | 24              | 145                 | 521             | 2               | 234, 8                   | I      |
| 7611           | 191 | 82/07/10                  | 0625:03                   | 0625:26                  | 46              | 61                  |                 | 2               | 234, 8                   | I      |
| 7612           | 191 | 82/07/10                  | 0628:42                   | 0643:08                  | 934             | 84                  | 10117           | 6               | 234, 8                   | I      |
| 7613           | 191 | 82/07/10                  | 0705:40                   | 0719:19                  | 1241            | 637                 | 74961           | 4               | 234, 9                   | I      |
| 6786           | 191 | 82/07/10                  | 0825:26                   | 0832:59                  | 1545            | 8609                | 84967           | 15              | 212, 16                  | I, FS  |
| 6787           | 191 | 82/07/10                  | 0852:01                   | 0852:59                  | 118             | 89                  |                 | 2               |                          | I      |
| 6788           | 191 | 82/07/10                  | 0859:15                   | 0859:40                  | 72              | 127                 | 2377            | 3               | 212, 16                  | I      |
| 5510           | 191 | 82/07/10                  | 1006:16                   | 1015:48                  | 703             | 3360                | 1.35E+05        | 4               | 176, 13                  | M5, SA |
| 5511           | 191 | 82/07/10                  | 1020:43                   | 1022:07                  | 99              | 113                 | 1254            | 2               | 176, 13                  |        |
| 5512           | 191 | 82/07/10                  | 1108:04                   | 1108:11                  | 28              | 100                 | 345             | 2               |                          |        |
| 5513           | 191 | 82/07/10                  | 1111:37                   | 1111:45                  | 14              | 76                  |                 | 2               |                          |        |
| 5514           | 191 | 82/07/10                  | 1146:57                   | 1147:39                  | 67              | 123                 | 1052            | 2               | 176, 14                  |        |
| 5515           | 191 | 82/07/10                  | 1150:29                   | 1150:50                  | 66              | 61                  |                 | 2               | 176, 14                  |        |
| 5516           | 191 | 82/07/10                  | 1153:23                   | 1156:33                  | 190             | 70                  |                 | 2               | 176, 14                  |        |
| 5517           | 191 | 82/07/10                  | 1158:38                   | 1200:05                  | 263             | 603                 | 17255           | 4               | 176, 14                  |        |
| 5518           | 191 | 82/07/10                  | 1241:04                   | 1241:41                  | 74              | 71                  |                 | 2               |                          |        |
| 5519           | 191 | 82/07/10                  | 1340:53                   | 1341:12                  | 31              | 172                 | 422             | 2               | 176, 15                  | EW     |
| 5520           | 191 | 82/07/10                  | 1504:04                   | 1504:36                  | 85              | 107                 | 584             | 2               | 176, 16                  |        |
| 5521           | 191 | 82/07/10                  | 1509:24                   | 1509:49                  | 111             | 303                 | 7594            | 2               | 176, 16                  |        |
| 5522           | 191 | 82/07/10                  | 1603:53                   | 1604:11                  | 155             | 134                 | 3595            | 3               | 177, 1                   |        |
| 5523           | 191 | 82/07/10                  | 1611:24                   | 1612:05                  | 137             | 151                 | 2766            | 2               | 177, 1                   |        |
| 5524           | 191 | 82/07/10                  | 1641:32                   | 1643:18                  | 896             | 789                 | 70307           | 5               | 177, 2                   | EN, SA |
| 5525           | 191 | 82/07/10                  | 1823:45                   | 1824:08                  | 34              | 97                  |                 | 2               |                          |        |
| 5526           | 191 | 82/07/10                  | 1901:19                   | 1902:06                  | 200             | 77                  |                 | 2               |                          |        |
| 5527           | 191 | 82/07/10                  | 1905:56                   | 1906:17                  | 35              | 66                  |                 | 2               |                          |        |
| 5528           | 191 | 82/07/10                  | 2001:47                   | 2002:32                  | 249             | 354                 | 15139           | 2               | 177, 3                   |        |
| 6584           | 191 | 82/07/10                  | 2049:13                   | 2049:42                  | 179             | 557                 | 25662           | 3               | 208, 2                   | I      |
| 6585           | 191 | 82/07/10                  | 2106:32                   | 2107:39                  | 141             | 337                 | 10206           | 5               | 208, 3                   | I      |
| 6586           | 191 | 82/07/10                  | 2118:07                   | 2118:23                  | 63              | 69                  |                 | 2               |                          | I      |
| 6587           | 191 | 82/07/10                  | 2135:27                   | 2141:14                  | 373             | 813                 | 53287           | 7               | 208, 4                   | I, EN  |
| 5529           | 191 | 82/07/10                  | 2212:10                   | 2215:25                  | 560             | 115                 | 11056           | 2               | 177, 4                   |        |
| 5530           | 191 | 82/07/10                  | 2237:26                   | 2239:25                  | 266             | 129                 | 2578            | 2               | 177, 4                   |        |
| 5531           | 191 | 82/07/10                  | 2244:38                   | 2248:38                  | 316             | 133                 | 3135            | 2               | 177, 4                   |        |
| 5532           | 191 | 82/07/10                  | 2252:07                   | 2252:26                  | 103             | 67                  |                 | 2               |                          |        |
| 5533           | 191 | 82/07/10                  | 2258:52                   | 2259:57                  | 120             | 66                  |                 | 2               |                          |        |
| 5534           | 191 | 82/07/10                  | 2313:06                   | 2313:40                  | 93              | 69                  |                 | 2               |                          |        |
| 5535           | 192 | 82/07/11                  | 0008:15                   | 0008:32                  | 37              | 69                  |                 | 2               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 5536           | 192 | 82/07/11                  | 0012:53                  | 0013:25                 | 44              | 69                  |                 | 2               |                          |          |
| 5537           | 192 | 82/07/11                  | 0125:28                  | 0131:36                 | 442             | 128                 | 4604            | 5               | 177, 5                   |          |
| 5538           | 192 | 82/07/11                  | 0205:40                  | 0207:42                 | 1053            | 550                 | 33917           | 7               | 177, 6                   |          |
| 5539           | 192 | 82/07/11                  | 0327:58                  | 0328:17                 | 52              | 270                 | 4583            | 3               | 177, 7                   |          |
| 5540           | 192 | 82/07/11                  | 0337:38                  | 0338:09                 | 146             | 824                 | 12112           | 4               | 177, 8                   |          |
| 5541           | 192 | 82/07/11                  | 0341:01                  | 0341:17                 | 33              | 97                  |                 | 2               |                          |          |
| 5542           | 192 | 82/07/11                  | 0443:31                  | 0445:21                 | 255             | 573                 | 25097           | 3               | 177, 9                   |          |
| 5543           | 192 | 82/07/11                  | 0527:42                  | 0530:23                 | 523             | 109                 | 11249           | 2               | 177, 10                  |          |
| 5544           | 192 | 82/07/11                  | 0614:58                  | 0621:09                 | 533             | 233                 | 14951           | 5               | 177, 11                  |          |
| 5545           | 192 | 82/07/11                  | 0636:35                  | 0637:12                 | 388             | 974                 | 29810           | 10              | 177, 11                  |          |
| 5546           | 192 | 82/07/11                  | 0700:21                  | 0700:47                 | 211             | 302                 | 5101            | 5               | 177, 12                  |          |
| 5547           | 192 | 82/07/11                  | 0708:06                  | 0708:52                 | 108             | 58                  |                 | 2               |                          |          |
| 5548           | 192 | 82/07/11                  | 0810:48                  | 0812:59                 | 436             | 698                 | 66284           | 7               | 177, 13                  |          |
| 5549           | 192 | 82/07/11                  | 0823:51                  | 0824:26                 | 95              | 70                  |                 | 2               |                          |          |
| 5550           | 192 | 82/07/11                  | 0826:56                  | 0827:39                 | 94              | 88                  |                 | 2               |                          |          |
| 5551           | 192 | 82/07/11                  | 0953:39                  | 0955:03                 | 196             | 183                 | 7033            | 2               | 177, 14                  |          |
| 7614           | 192 | 82/07/11                  | 1128:48                  | 1129:56                 | 466             | 290                 | 19092           | 3               | 234, 10                  | I ,SN    |
| 5552           | 192 | 82/07/11                  | 1326:21                  | 1326:34                 | 18              | 63                  |                 | 2               |                          |          |
| 5553           | 192 | 82/07/11                  | 1401:29                  | 1402:01                 | 397             | 5290                | 1.99E+05        | 7               | 177, 15                  | M5,SN    |
| 5554           | 192 | 82/07/11                  | 1413:08                  | 1413:36                 | 47              | 90                  |                 | 2               | 177, 15                  |          |
| 5555           | 192 | 82/07/11                  | 1447:42                  | 1448:01                 | 41              | 69                  |                 | 2               |                          |          |
| 5556           | 192 | 82/07/11                  | 1448:55                  | 1449:21                 | 54              | 91                  |                 | 3               |                          |          |
| 5557           | 192 | 82/07/11                  | 1452:37                  | 1453:23                 | 88              | 80                  |                 | 2               |                          |          |
| 5558           | 192 | 82/07/11                  | 1454:29                  | 1455:39                 | 149             | 75                  |                 | 2               |                          |          |
| 5559           | 192 | 82/07/11                  | 1630:20                  | 1631:04                 | 69              | 71                  |                 | 2               |                          |          |
| 5560           | 192 | 82/07/11                  | 1641:04                  | 1641:19                 | 39              | 71                  |                 | 2               |                          |          |
| 5561           | 192 | 82/07/11                  | 1711:49                  | 1712:13                 | 93              | 120                 | 2748            | 2               | 178, 2                   |          |
| 5562           | 192 | 82/07/11                  | 1814:05                  | 1814:58                 | 152             | 108                 | 3327            | 3               | 178, 3                   |          |
| 5563           | 192 | 82/07/11                  | 1848:46                  | 1852:45                 | 538             | 241                 | 26895           | 2               | 178, 4                   |          |
| 5564           | 192 | 82/07/11                  | 1908:50                  | 1910:44                 | 281             | 202                 | 8130            | 3               | 178, 4                   |          |
| 5566           | 192 | 82/07/11                  | 2158:33                  | 2208:25                 | 665             | 130                 | 10865           | 2               | 178, 5                   |          |
| 5565           | 192 | 82/07/11                  | 2158:40                  | 2159:21                 | 62              | 58                  |                 | 2               |                          |          |
| 5567           | 192 | 82/07/11                  | 2211:07                  | 2212:43                 | 239             | 316                 | 10887           | 2               | 178, 5                   |          |
| 5568           | 192 | 82/07/11                  | 2230:24                  | 2231:08                 | 160             | 201                 | 4329            | 3               | 178, 6                   |          |
| 5569           | 192 | 82/07/11                  | 2331:31                  | 2332:23                 | 1527            | 220                 | 40511           | 2               | 178, 7                   | SN       |
| 5570           | 193 | 82/07/12                  | 0015:40                  | 0016:29                 | 100             | 57                  |                 | 2               |                          |          |
| 5571           | 193 | 82/07/12                  | 0025:39                  | 0026:35                 | 94              | 71                  |                 | 2               |                          |          |
| 5572           | 193 | 82/07/12                  | 0113:30                  | 0114:18                 | 90              | 59                  |                 | 2               |                          |          |
| 5573           | 193 | 82/07/12                  | 0246:09                  | 0246:28                 | 55              | 62                  |                 | 2               |                          |          |
| 5574           | 193 | 82/07/12                  | 0253:14                  | 0253:57                 | 104             | 70                  |                 | 2               |                          |          |
| 5575           | 193 | 82/07/12                  | 0310:05                  | 0310:34                 | 762             | 1686                | 1.50E+05        | 5               | 178, 8                   | M5       |
| 5576           | 193 | 82/07/12                  | 0607:06                  | 0621:38                 | 3000            | 439                 | 1.83E+05        | 2               | 178, 9                   | SA       |
| 5577           | 193 | 82/07/12                  | 0755:27                  | 0755:45                 | 52              | 59                  |                 | 2               |                          |          |
| 5578           | 193 | 82/07/12                  | 0757:35                  | 0758:21                 | 71              | 68                  |                 | 2               |                          |          |
| 5579           | 193 | 82/07/12                  | 0813:37                  | 0817:51                 | 542             | 162                 | 1709            | 3               | 178, 10                  |          |
| 5580           | 193 | 82/07/12                  | 0932:36                  | 0945:57                 | 7741            | 58007               | 4.10E+07        | 13              | 178, 11                  | M5,EN,SA |
| 5581           | 193 | 82/07/12                  | 1212:12                  | 1212:37                 | 70              | 66                  |                 | 2               |                          |          |
| 5582           | 193 | 82/07/12                  | 1444:15                  | 1444:45                 | 112             | 157                 | 1960            | 2               | 178, 12                  |          |
| 5583           | 193 | 82/07/12                  | 1530:56                  | 1531:17                 | 42              | 929                 | 9804            | 7               | 178, 13                  | M5       |
| 5584           | 193 | 82/07/12                  | 2028:27                  | 2029:34                 | 182             | 74                  |                 | 2               |                          |          |
| 5585           | 193 | 82/07/12                  | 2034:35                  | 2035:33                 | 162             | 90                  |                 | 2               |                          |          |
| 5586           | 193 | 82/07/12                  | 2039:52                  | 2041:36                 | 1050            | 2195                | 1.82E+05        | 8               | 178, 15                  | M5       |
| 5587           | 193 | 82/07/12                  | 2224:36                  | 2225:21                 | 114             | 59                  |                 | 2               |                          |          |
| 5588           | 193 | 82/07/12                  | 2231:11                  | 2231:22                 | 19              | 106                 | 293             | 2               |                          |          |
| 5589           | 193 | 82/07/12                  | 2345:18                  | 2345:49                 | 113             | 121                 | 2615            | 2               | 178, 16                  |          |
| 5590           | 194 | 82/07/13                  | 0103:57                  | 0104:25                 | 64              | 86                  |                 | 2               |                          |          |
| 5591           | 194 | 82/07/13                  | 0227:09                  | 0229:03                 | 676             | 155                 | 14716           | 2               | 179, 1                   |          |
| 5592           | 194 | 82/07/13                  | 0259:31                  | 0300:05                 | 121             | 113                 | 1619            | 2               | 179, 1                   |          |
| 5593           | 194 | 82/07/13                  | 0638:00                  | 0638:12                 | 25              | 210                 | 848             | 4               | 179, 2                   |          |
| 5594           | 194 | 82/07/13                  | 0944:52                  | 0948:09                 | 387             | 130                 | 11429           | 2               | 179, 3                   | EN       |
| 7618           | 194 | 82/07/13                  | 1041:45                  | 1043:30                 | 229             | 587                 | 19875           | 3               | 234, 12                  | I        |
| 5595           | 194 | 82/07/13                  | 1105:28                  | 1105:29                 | 42              | 61                  |                 | 2               |                          |          |
| 5596           | 194 | 82/07/13                  | 1113:02                  | 1115:30                 | 203             | 136                 | 48739           | 2               | 179, 4                   | DG,ND    |
| 7615           | 194 | 82/07/13                  | 1242:19                  | 1242:28                 | 25              | 68                  |                 | 2               |                          | I        |
| 7616           | 194 | 82/07/13                  | 1247:02                  | 1247:14                 | 45              | 70                  |                 | 2               | 234, 11                  | I        |
| 7617           | 194 | 82/07/13                  | 1249:15                  | 1249:32                 | 31              | 113                 | 757             | 2               | 234, 11                  | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 5597           | 194 | 82/07/13                  | 1412:14                  | 1412:14                 | 985             | 171                 | 21375           | 2               | 179, 5                   | SA       |
| 5598           | 194 | 82/07/13                  | 1515:50                  | 1516:03                 | 33              | 77                  |                 | 2               |                          |          |
| 5599           | 194 | 82/07/13                  | 1642:53                  | 1643:08                 | 42              | 54                  |                 | 2               |                          |          |
| 5600           | 194 | 82/07/13                  | 2144:29                  | 2145:00                 | 42              | 76                  |                 | 2               |                          |          |
| 5601           | 194 | 82/07/13                  | 2145:50                  | 2146:25                 | 142             | 64                  |                 | 2               |                          |          |
| 5602           | 195 | 82/07/14                  | 1230:09                  | 1231:27                 | 116             | 125                 | 3469            | 2               | 179, 6                   |          |
| 5603           | 195 | 82/07/14                  | 1317:35                  | 1318:28                 | 143             | 73                  |                 | 2               |                          |          |
| 5604           | 195 | 82/07/14                  | 1323:11                  | 1324:22                 | 175             | 72                  |                 | 2               |                          | EN       |
| 5605           | 195 | 82/07/14                  | 1404:30                  | 1405:25                 | 170             | 89                  |                 | 2               |                          |          |
| 5606           | 195 | 82/07/14                  | 1453:12                  | 1459:54                 | 833             | 479                 | 1.57E+05        | 2               | 179, 7                   | SN,ES    |
| 5607           | 195 | 82/07/14                  | 1543:39                  | 1544:11                 | 63              | 127                 | 1632            | 2               | 179, 7                   |          |
| 5608           | 195 | 82/07/14                  | 1551:30                  | 1552:12                 | 48              | 79                  |                 | 2               |                          |          |
| 5609           | 195 | 82/07/14                  | 1714:58                  | 1715:31                 | 196             | 59                  |                 | 2               |                          |          |
| 5610           | 195 | 82/07/14                  | 1721:53                  | 1722:23                 | 124             | 87                  |                 | 2               |                          |          |
| 5611           | 195 | 82/07/14                  | 1727:34                  | 1730:13                 | 180             | 134                 | 6383            | 2               | 179, 8                   | EN       |
| 5612           | 195 | 82/07/14                  | 1847:32                  | 1847:41                 | 57              | 94                  |                 | 2               |                          |          |
| 5613           | 195 | 82/07/14                  | 1955:22                  | 1956:08                 | 56              | 61                  |                 | 2               |                          |          |
| 5614           | 195 | 82/07/14                  | 2007:43                  | 2008:04                 | 34              | 97                  |                 | 2               |                          |          |
| 5615           | 195 | 82/07/14                  | 2008:37                  | 2009:15                 | 109             | 243                 | 4199            | 3               | 179, 9                   |          |
| 5616           | 195 | 82/07/14                  | 2017:37                  | 2018:30                 | 120             | 69                  |                 | 5               |                          | AX       |
| 5617           | 195 | 82/07/14                  | 2121:10                  | 2121:23                 | 74              | 69                  |                 | 5               |                          |          |
| 5618           | 195 | 82/07/14                  | 2128:42                  | 2129:14                 | 48              | 68                  |                 | 2               |                          |          |
| 5619           | 195 | 82/07/14                  | 2133:32                  | 2133:41                 | 20              | 231                 | 594             | 4               | 179, 10                  |          |
| 5620           | 196 | 82/07/15                  | 0052:35                  | 0053:24                 | 71              | 77                  |                 | 2               |                          |          |
| 5621           | 196 | 82/07/15                  | 0211:15                  | 0211:20                 | 108             | 139                 | 1297            | 3               | 179, 11                  |          |
| 5622           | 196 | 82/07/15                  | 0218:09                  | 0223:29                 | 2658            | 623                 | 3.18E+05        | 3               | 179, 11                  | EN,AX    |
| 5623           | 196 | 82/07/15                  | 0333:03                  | 0338:27                 | 1940            | 490                 | 73485           | 4               | 179, 12                  | AX       |
| 5624           | 196 | 82/07/15                  | 0409:55                  | 0416:18                 | 600             | 92                  | 10135           | 2               | 179, 12                  |          |
| 5625           | 196 | 82/07/15                  | 0542:48                  | 0544:02                 | 86              | 76                  |                 | 2               |                          |          |
| 5626           | 196 | 82/07/15                  | 0600:35                  | 0600:53                 | 27              | 58                  |                 | 2               |                          |          |
| 5627           | 196 | 82/07/15                  | 0917:18                  | 0919:12                 | 173             | 82                  |                 | 2               |                          |          |
| 5628           | 196 | 82/07/15                  | 1228:43                  | 1229:49                 | 78              | 70                  |                 | 2               |                          |          |
| 7619           | 196 | 82/07/15                  | 1443:25                  | 1450:15                 | 412             | 112                 | 11785           | 4               | 234, 13                  | I,ES     |
| 7620           | 196 | 82/07/15                  | 1525:44                  | 1527:16                 | 163             | 471                 | 18764           | 3               | 234, 14                  | I        |
| 5629           | 196 | 82/07/15                  | 1620:06                  | 1620:53                 | 59              | 87                  |                 | 2               |                          |          |
| 5630           | 196 | 82/07/15                  | 1754:09                  | 1756:35                 | 152             | 61                  |                 | 2               |                          |          |
| 5631           | 196 | 82/07/15                  | 1840:26                  | 1840:40                 | 97              | 129                 | 3504            | 2               | 179, 13                  |          |
| 7621           | 196 | 82/07/15                  | 1932:34                  | 1933:36                 | 95              | 55                  |                 | 2               |                          | I        |
| 5632           | 196 | 82/07/15                  | 2139:52                  | 2140:40                 | 179             | 62                  |                 | 4               |                          |          |
| 5633           | 197 | 82/07/16                  | 0022:38                  | 0024:16                 | 1072            | 554                 | 1.24E+05        | 3               | 179, 14                  |          |
| 5634           | 197 | 82/07/16                  | 0320:46                  | 0322:13                 | 501             | 2178                | 51983           | 7               | 179, 15                  | M5,SA,FS |
| 5635           | 197 | 82/07/16                  | 0401:54                  | 0402:31                 | 68              | 82                  |                 | 2               |                          |          |
| 5636           | 197 | 82/07/16                  | 0853:34                  | 0854:28                 | 141             | 71                  |                 | 2               |                          |          |
| 5637           | 197 | 82/07/16                  | 0856:22                  | 0857:00                 | 67              | 57                  |                 | 2               |                          |          |
| 5638           | 197 | 82/07/16                  | 0858:31                  | 0901:58                 | 352             | 173                 | 22005           | 2               | 179, 17                  |          |
| 7624           | 197 | 82/07/16                  | 1248:01                  | 1248:20                 | 113             | 87                  |                 | 2               |                          | I        |
| 7625           | 197 | 82/07/16                  | 1520:27                  | 1522:02                 | 222             | 548                 | 18939           | 6               | 234, 16                  | I        |
| 7626           | 197 | 82/07/16                  | 1638:18                  | 1638:31                 | 27              | 54                  |                 | 2               |                          | I        |
| 7627           | 197 | 82/07/16                  | 2114:54                  | 2115:10                 | 35              | 134                 | 795             | 2               | 235, 1                   | I        |
| 7628           | 197 | 82/07/16                  | 2122:45                  | 2124:20                 | 195             | 60                  |                 | 4               |                          | I        |
| 5639           | 197 | 82/07/16                  | 2220:06                  | 2222:55                 | 799             | 1968                | 3.67E+05        | 9               | 180, 1                   | M5       |
| 5640           | 197 | 82/07/16                  | 2352:47                  | 2354:28                 | 1292            | 717                 | 1.96E+05        | 5               | 180, 3                   |          |
| 5641           | 198 | 82/07/17                  | 0134:33                  | 0135:04                 | 65              | 73                  |                 | 2               |                          |          |
| 5642           | 198 | 82/07/17                  | 0139:21                  | 0141:03                 | 145             | 63                  |                 | 2               |                          |          |
| 5643           | 198 | 82/07/17                  | 0202:13                  | 0205:51                 | 1189            | 21000               | 1.84E+06        | 9               | 180, 4                   |          |
| 5644           | 198 | 82/07/17                  | 0706:35                  | 0710:37                 | 517             | 163                 | 9477            | 5               | 180, 5                   |          |
| 5645           | 198 | 82/07/17                  | 1004:19                  | 1006:11                 | 259             | 308                 | 8444            | 3               | 180, 6                   |          |
| 5646           | 198 | 82/07/17                  | 1306:23                  | 1306:36                 | 155             | 95                  |                 | 2               |                          |          |
| 5647           | 198 | 82/07/17                  | 1316:58                  | 1317:35                 | 130             | 79                  |                 | 2               |                          |          |
| 5648           | 198 | 82/07/17                  | 2030:01                  | 2031:03                 | 374             | 358                 | 32355           | 9               | 180, 7                   |          |
| 5649           | 198 | 82/07/17                  | 2055:29                  | 2056:04                 | 35              | 67                  |                 | 2               |                          |          |
| 5650           | 198 | 82/07/17                  | 2105:52                  | 2107:28                 | 187             | 66                  |                 | 4               |                          |          |
| 5651           | 198 | 82/07/17                  | 2124:19                  | 2124:51                 | 112             | 120                 | 1926            | 2               | 180, 8                   |          |
| 5652           | 198 | 82/07/17                  | 2204:06                  | 2207:03                 | 750             | 666                 | 1.45E+05        | 7               | 180, 9                   |          |
| 5653           | 199 | 82/07/18                  | 0318:44                  | 0319:15                 | 56              | 59                  |                 | 2               |                          |          |
| 5654           | 199 | 82/07/18                  | 0321:00                  | 0321:46                 | 118             | 91                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 5655           | 199 | 82/07/18                  | 0630:54                  | 0632:21                 | 118             | 98                  |                 | 2               |                          |       |
| 5656           | 199 | 82/07/18                  | 0633:01                  | 0633:35                 | 210             | 81                  |                 | 2               |                          |       |
| 5657           | 199 | 82/07/18                  | 0751:06                  | 0751:14                 | 147             | 77                  |                 | 2               |                          | SA    |
| 5658           | 199 | 82/07/18                  | 0959:19                  | 0959:55                 | 77              | 170                 | 763             | 2               | 180, 10                  |       |
| 5659           | 199 | 82/07/18                  | 1006:44                  | 1007:20                 | 48              | 67                  |                 | 2               |                          |       |
| 5660           | 199 | 82/07/18                  | 1139:24                  | 1142:07                 | 193             | 126                 | 7115            | 2               | 180, 11                  |       |
| 5661           | 199 | 82/07/18                  | 1300:09                  | 1301:21                 | 104             | 295                 | 2705            | 3               | 180, 12                  | FS    |
| 7629           | 199 | 82/07/18                  | 1352:14                  | 1352:22                 | 44              | 142                 | 1066            | 2               | 235, 2                   | I     |
| 7630           | 199 | 82/07/18                  | 2058:00                  | 2058:29                 | 75              | 62                  |                 | 2               |                          | I,SG  |
| 5662           | 199 | 82/07/18                  | 2224:15                  | 2224:38                 | 34              | 303                 | 1178            | 5               | 180, 13                  | FS    |
| 5663           | 199 | 82/07/18                  | 2225:10                  | 2225:43                 | 76              | 64                  |                 | 2               |                          |       |
| 5664           | 199 | 82/07/18                  | 2226:50                  | 2227:29                 | 198             | 82                  |                 | 5               |                          | AX    |
| 5665           | 199 | 82/07/18                  | 2330:30                  | 2333:26                 | 225             | 78                  | 2315            | 5               | 180, 14                  | AX    |
| 5666           | 200 | 82/07/19                  | 0018:37                  | 0019:21                 | 141             | 383                 | 11266           | 3               | 180, 15                  | FS    |
| 5667           | 200 | 82/07/19                  | 0057:02                  | 0100:52                 | 1025            | 8174                | 1.05E+06        | 14              | 180, 16                  | M5,SN |
| 7631           | 200 | 82/07/19                  | 0239:18                  | 0241:05                 | 112             | 61                  |                 | 2               |                          | I     |
| 7632           | 200 | 82/07/19                  | 0416:02                  | 0422:12                 | 2007            | 4487                | 7.10E+05        | 6               | 235, 3                   | I,SA  |
| 7633           | 200 | 82/07/19                  | 0917:18                  | 0918:33                 | 229             | 118                 | 3397            | 2               | 235, 4                   | I     |
| 5669           | 200 | 82/07/19                  | 1101:31                  | 1101:51                 | 37              | 80                  |                 | 2               |                          |       |
| 5670           | 200 | 82/07/19                  | 1248:03                  | 1248:34                 | 94              | 246                 | 2850            | 3               | 181, 2                   |       |
| 5671           | 200 | 82/07/19                  | 1250:32                  | 1251:47                 | 283             | 718                 | 51430           | 3               | 181, 2                   |       |
| 5672           | 200 | 82/07/19                  | 1424:34                  | 1424:57                 | 75              | 243                 | 2088            | 4               | 181, 3                   |       |
| 5673           | 200 | 82/07/19                  | 1544:15                  | 1544:33                 | 51              | 90                  |                 | 2               |                          |       |
| 5674           | 200 | 82/07/19                  | 1552:06                  | 1552:38                 | 70              | 65                  |                 | 2               |                          |       |
| 5675           | 200 | 82/07/19                  | 1608:57                  | 1610:48                 | 141             | 340                 | 15209           | 3               | 181, 4                   | EN    |
| 5676           | 200 | 82/07/19                  | 1841:26                  | 1844:58                 | 692             | 230                 | 43252           | 2               | 181, 5                   |       |
| 5677           | 200 | 82/07/19                  | 2010:19                  | 2011:04                 | 84              | 77                  |                 | 2               |                          |       |
| 5678           | 200 | 82/07/19                  | 2013:52                  | 2014:43                 | 452             | 567                 | 44870           | 5               | 181, 6                   |       |
| 5679           | 200 | 82/07/19                  | 2206:20                  | 2212:07                 | 1464            | 115                 | 2.91E+05        | 8               | 181, 7                   | EN,AX |
| 7634           | 200 | 82/07/19                  | 2340:04                  | 2341:49                 | 156             | 55                  |                 | 2               |                          | I     |
| 7635           | 201 | 82/07/20                  | 0053:00                  | 0053:55                 | 193             | 74                  |                 | 2               |                          | I     |
| 7636           | 201 | 82/07/20                  | 0116:41                  | 0117:54                 | 138             | 63                  |                 | 2               |                          | I     |
| 5680           | 201 | 82/07/20                  | 0229:26                  | 0230:14                 | 118             | 71                  |                 | 2               |                          |       |
| 5681           | 201 | 82/07/20                  | 0233:46                  | 0234:54                 | 204             | 265                 | 10799           | 2               | 181, 8                   |       |
| 5682           | 201 | 82/07/20                  | 0239:20                  | 0241:32                 | 709             | 114                 | 13981           | 2               | 181, 8                   |       |
| 5683           | 201 | 82/07/20                  | 0411:27                  | 0417:49                 | 2243            | 7638                | 4.84E+05        | 15              | 181, 9                   | M5,EW |
| 5684           | 201 | 82/07/20                  | 0751:01                  | 0752:56                 | 198             | 142                 | 4519            | 2               | 181, 10                  | EW    |
| 5685           | 201 | 82/07/20                  | 0917:22                  | 0918:50                 | 152             | 77                  | 6337            | 2               |                          |       |
| 5686           | 201 | 82/07/20                  | 1457:21                  | 1457:33                 | 47              | 156                 | 688             | 3               | 181, 11                  |       |
| 5687           | 201 | 82/07/20                  | 1633:22                  | 1633:41                 | 52              | 65                  |                 | 2               |                          |       |
| 5688           | 201 | 82/07/20                  | 1824:41                  | 1826:21                 | 156             | 92                  |                 | 2               |                          |       |
| 5689           | 201 | 82/07/20                  | 2148:43                  | 2149:12                 | 126             | 147                 | 3578            | 2               | 181, 12                  |       |
| 5690           | 201 | 82/07/20                  | 2152:59                  | 2154:14                 | 619             | 1000                | 67191           | 8               | 181, 12                  |       |
| 5691           | 201 | 82/07/20                  | 2306:13                  | 2310:12                 | 511             | 912                 | 84779           | 4               | 181, 13                  |       |
| 5692           | 201 | 82/07/20                  | 2321:53                  | 2322:30                 | 141             | 164                 | 6116            | 5               | 181, 13                  |       |
| 5693           | 201 | 82/07/20                  | 2336:35                  | 2338:01                 | 339             | 102                 | 6238            | 3               | 181, 13                  |       |
| 5694           | 202 | 82/07/21                  | 0108:44                  | 0109:21                 | 73              | 80                  |                 | 2               |                          | AX    |
| 5695           | 202 | 82/07/21                  | 0114:18                  | 0115:22                 | 141             | 2134                | 33237           | 7               | 181, 14                  |       |
| 7637           | 202 | 82/07/21                  | 1218:17                  | 1218:18                 | 66              | 56                  |                 | 2               |                          | I     |
| 7638           | 202 | 82/07/21                  | 1308:26                  | 1308:41                 | 64              | 127                 | 908             | 3               | 235, 5                   | I     |
| 5699           | 202 | 82/07/21                  | 1641:14                  | 1645:08                 | 1636            | 666                 | 1.63E+05        | 5               | 181, 16                  |       |
| 5700           | 202 | 82/07/21                  | 1812:52                  | 1822:59                 | 1206            | 3374                | 3.92E+05        | 14              | 182, 1                   | M5    |
| 5701           | 202 | 82/07/21                  | 1840:24                  | 1842:00                 | 331             | 282                 | 14827           | 2               | 182, 1                   |       |
| 5702           | 203 | 82/07/22                  | 0015:31                  | 0015:45                 | 37              | 58                  |                 | 2               |                          | AX    |
| 5703           | 203 | 82/07/22                  | 0511:29                  | 0512:50                 | 227             | 3520                | 73152           | 14              | 182, 2                   | M5    |
| 5709           | 203 | 82/07/22                  | 1639:55                  | 1657:36                 | 1098            | 569                 | 1.39E+05        | 5               | 182, 8                   | EN,NO |
| 5710           | 203 | 82/07/22                  | 1734:18                  | 1735:10                 | 261             | 109                 | 7243            | 2               | 182, 9                   |       |
| 5711           | 203 | 82/07/22                  | 1955:09                  | 1956:07                 | 112             | 179                 | 5485            | 3               | 182, 10                  | AX    |
| 7639           | 204 | 82/07/23                  | 1016:46                  | 1017:27                 | 91              | 138                 | 2946            | 2               | 235, 6                   | I     |
| 7640           | 204 | 82/07/23                  | 1018:30                  | 1019:43                 | 74              | 63                  |                 | 2               | 235, 6                   | I     |
| 7641           | 204 | 82/07/23                  | 1504:13                  | 1504:33                 | 43              | 55                  |                 | 2               |                          | I     |
| 5713           | 206 | 82/07/25                  | 0002:47                  | 0003:00                 | 32              | 66                  |                 | 2               |                          |       |
| 5714           | 206 | 82/07/25                  | 2132:59                  | 2133:23                 | 63              | 67                  |                 | 4               |                          | AX    |
| 7642           | 207 | 82/07/26                  | 1835:36                  | 1836:28                 | 84              | 82                  |                 | 6               |                          | I,SG  |
| 7643           | 208 | 82/07/27                  | 1316:10                  | 1318:13                 | 179             | 60                  |                 | 2               |                          |       |
| 5722           | 212 | 82/07/31                  | 1710:18                  | 1711:14                 | 198             | 71                  |                 | 3               |                          |       |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 7646           | 213 | 82/08/01                  | 0246:38                  | 0247:13                 | 147             | 66                  |                 | 2               |                          | I      |
| 5723           | 213 | 82/08/01                  | 0717:36                  | 0718:21                 | 87              | 63                  |                 | 2               |                          |        |
| 5724           | 213 | 82/08/01                  | 0721:58                  | 0722:40                 | 95              | 68                  |                 | 2               |                          |        |
| 5725           | 213 | 82/08/01                  | 1949:09                  | 1949:59                 | 194             | 54                  |                 | 2               |                          | EW     |
| 5726           | 214 | 82/08/02                  | 1456:58                  | 1457:51                 | 136             | 62                  |                 | 4               |                          | EW     |
| 5727           | 214 | 82/08/02                  | 1620:42                  | 1621:28                 | 80              | 64                  |                 | 2               |                          | EW     |
| 5728           | 214 | 82/08/02                  | 1816:27                  | 1817:23                 | 164             | 67                  |                 | 2               |                          | EG     |
| 5729           | 214 | 82/08/02                  | 1953:38                  | 1954:35                 | 183             | 74                  |                 | 5               |                          |        |
| 5732           | 215 | 82/08/03                  | 1145:33                  | 1146:56                 | 109             | 64                  |                 | 2               |                          |        |
| 5733           | 215 | 82/08/03                  | 1300:58                  | 1301:28                 | 109             | 278                 | 6389            | 4               | 182, 15                  |        |
| 7648           | 215 | 82/08/03                  | 1315:57                  | 1316:25                 | 119             | 49                  |                 | 2               |                          | I      |
| 7649           | 215 | 82/08/03                  | 1319:46                  | 1320:35                 | 200             | 67                  |                 | 2               |                          | I      |
| 5734           | 215 | 82/08/03                  | 1440:37                  | 1441:14                 | 136             | 86                  |                 | 5               |                          | AX     |
| 5735           | 215 | 82/08/03                  | 1620:20                  | 1620:41                 | 65              | 66                  |                 | 3               |                          | EG     |
| 5736           | 215 | 82/08/03                  | 2119:15                  | 2120:09                 | 91              | 60                  |                 | 2               |                          |        |
| 5737           | 216 | 82/08/04                  | 0000:24                  | 0000:49                 | 53              | 60                  |                 | 2               |                          |        |
| 5738           | 216 | 82/08/04                  | 0017:08                  | 0018:10                 | 115             | 58                  |                 | 2               |                          |        |
| 5739           | 216 | 82/08/04                  | 0457:24                  | 0457:38                 | 34              | 59                  |                 | 2               |                          |        |
| 5740           | 216 | 82/08/04                  | 0622:04                  | 0622:30                 | 38              | 67                  |                 | 2               |                          | EW     |
| 5741           | 216 | 82/08/04                  | 1007:30                  | 1008:11                 | 274             | 117                 | 5437            | 2               | 182, 16                  |        |
| 5742           | 216 | 82/08/04                  | 1106:40                  | 1107:13                 | 62              | 76                  |                 | 2               |                          |        |
| 5743           | 216 | 82/08/04                  | 1750:29                  | 1751:13                 | 78              | 115                 | 678             | 2               | 183, 1                   |        |
| 5744           | 216 | 82/08/04                  | 1921:55                  | 1922:18                 | 48              | 70                  |                 | 2               |                          |        |
| 5745           | 216 | 82/08/04                  | 2030:52                  | 2031:03                 | 31              | 73                  |                 | 2               |                          |        |
| 7650           | 216 | 82/08/04                  | 2340:45                  | 2341:19                 | 151             | 239                 | 6929            | 3               | 235, 9                   | I      |
| 5746           | 217 | 82/08/05                  | 0342:18                  | 0343:17                 | 306             | 270                 | 22044           | 4               | 183, 2                   | M5, EN |
| 5747           | 217 | 82/08/05                  | 0807:00                  | 0807:08                 | 15              | 78                  |                 | 2               |                          |        |
| 5748           | 217 | 82/08/05                  | 0912:43                  | 0912:50                 | 24              | 127                 | 776             | 2               | 183, 3                   |        |
| 5749           | 217 | 82/08/05                  | 0939:34                  | 0939:58                 | 81              | 81                  |                 | 2               |                          |        |
| 5750           | 217 | 82/08/05                  | 0943:08                  | 0945:55                 | 240             | 125                 | 2709            | 4               | 183, 4                   |        |
| 5751           | 217 | 82/08/05                  | 1138:44                  | 1139:11                 | 130             | 711                 | 26752           | 5               | 183, 5                   |        |
| 7651           | 217 | 82/08/05                  | 1257:21                  | 1257:45                 | 66              | 61                  |                 | 2               |                          | I      |
| 7652           | 217 | 82/08/05                  | 1432:49                  | 1433:52                 | 95              | 66                  |                 | 2               |                          | I      |
| 7653           | 217 | 82/08/05                  | 1541:34                  | 1541:41                 | 21              | 70                  |                 | 2               |                          | I      |
| 7654           | 217 | 82/08/05                  | 1559:49                  | 1600:15                 | 90              | 359                 | 3198            | 3               | 235, 10                  | I      |
| 7655           | 218 | 82/08/06                  | 0421:51                  | 0422:10                 | 33              | 72                  |                 | 2               |                          | I      |
| 7656           | 218 | 82/08/06                  | 0550:16                  | 0550:42                 | 37              | 65                  |                 | 2               |                          | I      |
| 5752           | 218 | 82/08/06                  | 0752:39                  | 0753:08                 | 64              | 67                  |                 | 2               |                          | EW     |
| 7657           | 218 | 82/08/06                  | 1120:03                  | 1120:29                 | 126             | 699                 | 11366           | 3               | 235, 11                  | I      |
| 7658           | 218 | 82/08/06                  | 1124:00                  | 1124:44                 | 106             | 95                  |                 | 2               |                          | I      |
| 7659           | 218 | 82/08/06                  | 1205:57                  | 1206:16                 | 119             | 108                 | 1494            | 2               | 235, 12                  | I, EG  |
| 7660           | 218 | 82/08/06                  | 1342:14                  | 1342:28                 | 319             | 129                 | 4480            | 2               | 235, 13                  | I      |
| 7661           | 218 | 82/08/06                  | 2325:07                  | 2328:38                 | 583             | 240                 | 32167           | 3               | 235, 14                  | I      |
| 7662           | 219 | 82/08/07                  | 0839:33                  | 0839:39                 | 19              | 98                  |                 | 4               |                          | I      |
| 5754           | 219 | 82/08/07                  | 1109:05                  | 1109:55                 | 110             | 85                  |                 | 5               |                          |        |
| 5755           | 219 | 82/08/07                  | 1149:28                  | 1150:05                 | 116             | 150                 | 1621            | 2               | 183, 6                   |        |
| 5756           | 219 | 82/08/07                  | 1151:49                  | 1152:47                 | 60              | 83                  |                 | 2               |                          |        |
| 5757           | 219 | 82/08/07                  | 1158:12                  | 1207:11                 | 932             | 153                 | 25914           | 2               | 183, 6                   |        |
| 5758           | 219 | 82/08/07                  | 1332:36                  | 1332:56                 | 102             | 78                  |                 | 2               |                          |        |
| 5759           | 219 | 82/08/07                  | 1644:21                  | 1652:40                 | 826             | 102                 | 15479           | 3               | 183, 7                   | SG     |
| 5760           | 219 | 82/08/07                  | 2140:59                  | 2141:53                 | 88              | 394                 | 4762            | 5               | 183, 8                   | EW     |
| 5761           | 219 | 82/08/07                  | 2144:02                  | 2145:12                 | 162             | 93                  |                 | 2               | 183, 8                   | EW     |
| 7663           | 220 | 82/08/08                  | 0026:59                  | 0028:32                 | 215             | 103                 |                 | 2               | 235, 15                  | I      |
| 5762           | 220 | 82/08/08                  | 0053:49                  | 0054:10                 | 52              | 101                 | 1343            | 2               |                          | EG     |
| 6789           | 220 | 82/08/08                  | 0201:48                  | 0204:40                 | 846             | 8504                | 4.50E+05        | 15              | 213, 1                   | M5, I  |
| 6790           | 220 | 82/08/08                  | 0246:21                  | 0247:49                 | 229             | 437                 | 22054           | 4               | 213, 1                   | I      |
| 5763           | 220 | 82/08/08                  | 0519:01                  | 0519:27                 | 33              | 74                  |                 | 2               |                          |        |
| 5764           | 220 | 82/08/08                  | 0538:23                  | 0538:38                 | 39              | 61                  |                 | 2               |                          |        |
| 5765           | 220 | 82/08/08                  | 0700:33                  | 0701:05                 | 49              | 92                  |                 | 2               |                          |        |
| 5766           | 220 | 82/08/08                  | 0918:59                  | 0919:21                 | 42              | 66                  |                 | 2               |                          |        |
| 5767           | 220 | 82/08/08                  | 1037:46                  | 1038:06                 | 198             | 127                 | 4535            | 2               | 183, 9                   |        |
| 7664           | 220 | 82/08/08                  | 1349:29                  | 1349:44                 | 33              | 67                  |                 | 2               |                          | I      |
| 5770           | 220 | 82/08/08                  | 1638:39                  | 1639:15                 | 86              | 72                  |                 | 2               |                          | EW     |
| 5771           | 220 | 82/08/08                  | 1642:59                  | 1643:24                 | 73              | 68                  |                 | 2               |                          | EW     |
| 5772           | 220 | 82/08/08                  | 1646:40                  | 1646:58                 | 150             | 109                 | 1431            | 2               | 183, 11                  | EW     |
| 5768           | 220 | 82/08/08                  | 1756:04                  | 1756:16                 | 29              | 173                 | 909             | 2               | 183, 10                  | EW     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HH:MM:SS | PEAK<br>TIME<br>HH:MM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 5769           | 220 | 82/08/08                  | 1759:31                   | 1800:01                  | 79              | 75                  |                 | 2               |                          | EW     |
| 7665           | 221 | 82/08/09                  | 0152:29                   | 0153:15                  | 121             | 78                  |                 | 2               |                          | I      |
| 7666           | 221 | 82/08/09                  | 0204:29                   | 0205:06                  | 222             | 1226                | 33207           | 4               | 235, 16                  | I      |
| 7667           | 221 | 82/08/09                  | 0646:50                   | 0649:07                  | 625             | 247                 | 23920           | 2               | 236, 1                   | I ,DG  |
| 7668           | 221 | 82/08/09                  | 1250:43                   | 1252:25                  | 240             | 139                 | 6387            | 3               | 236, 2                   | I      |
| 5773           | 221 | 82/08/09                  | 1613:05                   | 1614:25                  | 120             | 86                  |                 | 5               |                          | AX     |
| 5774           | 221 | 82/08/09                  | 1616:34                   | 1617:01                  | 157             | 83                  |                 | 5               |                          | AX     |
| 7669           | 222 | 82/08/10                  | 0009:55                   | 0009:59                  | 14              | 80                  |                 | 2               |                          | I      |
| 7670           | 222 | 82/08/10                  | 0010:52                   | 0011:09                  | 27              | 62                  |                 | 2               |                          | I      |
| 5775           | 222 | 82/08/10                  | 0516:27                   | 0517:16                  | 189             | 129                 | 8702            | 2               | 183, 12                  |        |
| 5776           | 222 | 82/08/10                  | 0525:09                   | 0529:12                  | 519             | 283                 | 29553           | 2               | 183, 12                  |        |
| 7671           | 222 | 82/08/10                  | 1316:12                   | 1320:49                  | 522             | 311                 | 17919           | 5               | 236, 3                   | I      |
| 7672           | 223 | 82/08/11                  | 0617:44                   | 0618:08                  | 119             | 54                  |                 | 2               |                          | I      |
| 5777           | 223 | 82/08/11                  | 1138:09                   | 1139:13                  | 200             | 1516                | 57530           | 4               | 183, 14                  | M5     |
| 5778           | 224 | 82/08/12                  | 1044:24                   | 1045:44                  | 139             | 148                 | 4124            | 2               | 183, 15                  |        |
| 7673           | 225 | 82/08/13                  | 0235:58                   | 0236:15                  | 42              | 75                  |                 | 2               |                          | I      |
| 7674           | 225 | 82/08/13                  | 0737:49                   | 0738:22                  | 197             | 160                 | 4061            | 3               | 236, 4                   | I      |
| 7675           | 225 | 82/08/13                  | 0745:24                   | 0745:59                  | 128             | 66                  |                 | 2               |                          | I      |
| 5780           | 225 | 82/08/13                  | 1342:36                   | 1343:22                  | 124             | 294                 | 5826            | 7               | 183, 16                  |        |
| 5781           | 225 | 82/08/13                  | 1813:39                   | 1817:52                  | 502             | 186                 | 14530           | 3               | 184, 1                   | EW     |
| 5782           | 225 | 82/08/13                  | 2255:37                   | 2259:36                  | 638             | 446                 | 31668           | 5               | 184, 2                   | EW     |
| 5783           | 225 | 82/08/13                  | 2318:53                   | 2323:45                  | 452             | 71                  | 2533            | 2               | 184, 3                   | EW     |
| 5784           | 226 | 82/08/14                  | 0240:35                   | 0242:26                  | 597             | 610                 | 39639           | 4               | 184, 4                   |        |
| 5785           | 226 | 82/08/14                  | 0400:11                   | 0400:57                  | 298             | 77                  | 1930            | 2               | 184, 5                   |        |
| 5786           | 226 | 82/08/14                  | 0509:38                   | 0510:05                  | 444             | 535                 | 39222           | 5               | 184, 6                   | SN, EG |
| 7676           | 226 | 82/08/14                  | 0735:06                   | 0735:27                  | 39              | 53                  |                 | 2               |                          | I      |
| 5787           | 228 | 82/08/16                  | 0203:15                   | 0204:35                  | 273             | 259                 | 59307           | 5               | 184, 7                   | NO     |
| 5788           | 228 | 82/08/16                  | 1232:35                   | 1233:55                  | 198             | 77                  |                 | 3               |                          | AX, EW |
| 7678           | 229 | 82/08/17                  | 0646:36                   | 0647:36                  | 134             | 75                  |                 | 2               |                          | I      |
| 7679           | 229 | 82/08/17                  | 2031:49                   | 2031:57                  | 18              | 92                  |                 | 2               |                          | I      |
| 7680           | 230 | 82/08/18                  | 0057:07                   | 0057:25                  | 45              | 57                  |                 | 2               |                          | I      |
| 7681           | 230 | 82/08/18                  | 0105:45                   | 0106:07                  | 61              | 112                 | 847             | 2               | 236, 6                   | I      |
| 5789           | 230 | 82/08/18                  | 0407:41                   | 0407:48                  | 13              | 69                  |                 | 2               |                          |        |
| 5790           | 230 | 82/08/18                  | 0750:55                   | 0752:10                  | 175             | 74                  |                 | 2               |                          |        |
| 5791           | 230 | 82/08/18                  | 0753:51                   | 0754:49                  | 118             | 72                  |                 | 2               |                          |        |
| 7684           | 230 | 82/08/18                  | 1207:04                   | 1207:21                  | 100             | 69                  |                 | 2               |                          | I      |
| 7685           | 230 | 82/08/18                  | 1350:21                   | 1350:32                  | 14              | 63                  |                 | 2               |                          | I      |
| 5792           | 230 | 82/08/18                  | 2346:42                   | 2347:06                  | 63              | 79                  |                 | 2               |                          |        |
| 5793           | 231 | 82/08/19                  | 0047:20                   | 0047:53                  | 69              | 136                 | 1680            | 2               | 184, 8                   |        |
| 7686           | 231 | 82/08/19                  | 0305:32                   | 0307:05                  | 146             | 57                  |                 | 2               |                          | I      |
| 7687           | 231 | 82/08/19                  | 0411:15                   | 0411:27                  | 33              | 359                 | 2868            | 3               | 236, 8                   | I      |
| 7688           | 231 | 82/08/19                  | 0907:59                   | 0908:08                  | 21              | 106                 | 477             | 2               | 236, 9                   | I      |
| 5794           | 233 | 82/08/21                  | 1609:41                   | 1611:03                  | 210             | 75                  |                 | 2               |                          |        |
| 7691           | 238 | 82/08/26                  | 2256:30                   | 2301:10                  | 661             | 393                 | 24844           | 3               | 236, 10                  | I      |
| 7692           | 239 | 82/08/27                  | 0323:51                   | 0325:56                  | 564             | 1012                | 66227           | 3               | 236, 11                  | I      |
| 7693           | 239 | 82/08/27                  | 0539:03                   | 0539:17                  | 95              | 67                  |                 | 2               |                          | I      |
| 7694           | 239 | 82/08/27                  | 0546:31                   | 0549:11                  | 505             | 391                 | 30147           | 2               | 236, 12                  | I      |
| 5799           | 239 | 82/08/27                  | 2106:46                   | 2107:00                  | 58              | 72                  |                 | 2               |                          |        |
| 5800           | 240 | 82/08/28                  | 0215:09                   | 0215:44                  | 68              | 65                  |                 | 2               |                          |        |
| 5801           | 240 | 82/08/28                  | 0508:30                   | 0509:04                  | 83              | 97                  |                 | 2               |                          |        |
| 5802           | 240 | 82/08/28                  | 0642:25                   | 0642:56                  | 76              | 79                  |                 | 2               |                          |        |
| 5803           | 240 | 82/08/28                  | 2212:37                   | 2212:46                  | 19              | 60                  |                 | 2               |                          |        |
| 5804           | 240 | 82/08/28                  | 2258:13                   | 2300:31                  | 152             | 381                 | 4303            | 5               | 184, 12                  | FS     |
| 5805           | 241 | 82/08/29                  | 0314:16                   | 0314:56                  | 165             | 80                  |                 | 2               |                          |        |
| 5806           | 241 | 82/08/29                  | 0345:08                   | 0345:53                  | 70              | 68                  |                 | 2               |                          |        |
| 5807           | 241 | 82/08/29                  | 2334:51                   | 2336:23                  | 118             | 63                  |                 | 2               |                          | AX     |
| 5808           | 242 | 82/08/30                  | 0013:02                   | 0014:41                  | 168             | 171                 | 3474            | 2               | 184, 13                  |        |
| 7695           | 243 | 82/08/31                  | 0553:18                   | 0605:21                  | 1045            | 216                 | 50171           | 2               | 236, 13                  | I      |
| 5809           | 243 | 82/08/31                  | 0743:05                   | 0743:22                  | 56              | 98                  |                 | 2               |                          |        |
| 5810           | 243 | 82/08/31                  | 1721:15                   | 1725:26                  | 633             | 223                 | 49026           | 2               | 184, 14                  |        |
| 5811           | 243 | 82/08/31                  | 1857:56                   | 1858:24                  | 72              | 139                 | 2465            | 2               | 184, 15                  |        |
| 5812           | 244 | 82/09/01                  | 0738:14                   | 0739:29                  | 191             | 96                  |                 | 2               |                          | AX     |
| 7696           | 244 | 82/09/01                  | 0845:58                   | 0857:12                  | 1251            | 311                 | 77817           | 2               | 236, 14                  | I ,SA  |
| 5813           | 244 | 82/09/01                  | 0917:21                   | 0918:44                  | 196             | 114                 | 6768            | 2               | 184, 16                  |        |
| 5814           | 244 | 82/09/01                  | 1619:51                   | 1620:53                  | 201             | 475                 | 14605           | 4               | 185, 1                   | EW     |
| 5815           | 244 | 82/09/01                  | 1829:10                   | 1829:17                  | 29              | 59                  |                 | 2               |                          | EW     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 5816           | 244 | 82/09/01                  | 2126:55                  | 2127:42                 | 104             | 96                  | 4601            | 2               |                          |        |
| 5817           | 245 | 82/09/02                  | 2125:25                  | 2126:12                 | 149             | 57                  |                 | 2               |                          |        |
| 5818           | 245 | 82/09/02                  | 2259:40                  | 2259:58                 | 40              | 89                  |                 | 2               |                          |        |
| 5819           | 245 | 82/09/02                  | 2308:39                  | 2309:34                 | 138             | 99                  |                 | 5               |                          | AX     |
| 5820           | 246 | 82/09/03                  | 0138:01                  | 0138:35                 | 165             | 67                  |                 | 2               |                          |        |
| 5821           | 248 | 82/09/05                  | 0308:50                  | 0309:36                 | 127             | 65                  |                 | 2               |                          |        |
| 5822           | 249 | 82/09/06                  | 0041:59                  | 0042:32                 | 95              | 65                  |                 | 2               |                          |        |
| 7698           | 249 | 82/09/06                  | 0430:50                  | 0431:16                 | 55              | 68                  |                 | 2               |                          | I      |
| 7699           | 249 | 82/09/06                  | 2018:46                  | 2021:32                 | 230             | 149                 | 1989            | 2               | 236, 15                  | I      |
| 5823           | 249 | 82/09/06                  | 2159:12                  | 2200:29                 | 316             | 119                 | 6299            | 5               | 185, 2                   |        |
| 5824           | 249 | 82/09/06                  | 2329:27                  | 2331:22                 | 199             | 65                  |                 | 2               |                          |        |
| 7700           | 250 | 82/09/07                  | 1810:15                  | 1811:00                 | 56              | 78                  |                 | 2               |                          | I, EG  |
| 5825           | 251 | 82/09/08                  | 2123:00                  | 2123:46                 | 215             | 75                  |                 | 3               |                          | SG     |
| 5826           | 252 | 82/09/09                  | 0200:40                  | 0201:08                 | 150             | 62                  |                 | 2               |                          |        |
| 5827           | 252 | 82/09/09                  | 0953:11                  | 0953:36                 | 39              | 69                  |                 | 2               |                          |        |
| 5828           | 252 | 82/09/09                  | 0954:38                  | 0955:02                 | 30              | 59                  |                 | 2               |                          |        |
| 5829           | 252 | 82/09/09                  | 0956:35                  | 0956:58                 | 90              | 174                 | 2135            | 2               | 185, 3                   |        |
| 5830           | 252 | 82/09/09                  | 1011:41                  | 1011:46                 | 51              | 61                  |                 | 2               |                          |        |
| 5831           | 252 | 82/09/09                  | 1014:38                  | 1015:13                 | 77              | 68                  |                 | 2               |                          |        |
| 7701           | 252 | 82/09/09                  | 1927:18                  | 1927:59                 | 89              | 59                  |                 | 2               |                          | I      |
| 5832           | 253 | 82/09/10                  | 0014:37                  | 0015:04                 | 97              | 62                  |                 | 2               |                          |        |
| 5833           | 253 | 82/09/10                  | 0019:44                  | 0022:38                 | 220             | 77                  | 2654            | 2               | 185, 4                   | EW     |
| 5834           | 253 | 82/09/10                  | 0437:03                  | 0439:08                 | 470             | 75                  | 3644            | 2               | 185, 5                   |        |
| 5835           | 253 | 82/09/10                  | 0826:21                  | 0826:50                 | 114             | 869                 | 18849           | 4               | 185, 6                   |        |
| 5836           | 253 | 82/09/10                  | 2143:59                  | 2144:12                 | 43              | 73                  |                 | 2               |                          |        |
| 5837           | 253 | 82/09/10                  | 2147:32                  | 2147:56                 | 70              | 113                 | 1698            | 5               | 185, 7                   |        |
| 5838           | 254 | 82/09/11                  | 0607:08                  | 0607:29                 | 59              | 68                  |                 | 2               |                          |        |
| 5839           | 254 | 82/09/11                  | 0634:22                  | 0635:22                 | 102             | 64                  |                 | 2               |                          |        |
| 5840           | 254 | 82/09/11                  | 1529:18                  | 1529:43                 | 84              | 88                  |                 | 2               |                          |        |
| 5841           | 255 | 82/09/12                  | 1548:56                  | 1550:07                 | 81              | 87                  |                 | 2               |                          |        |
| 7702           | 257 | 82/09/14                  | 1255:36                  | 1255:49                 | 31              | 61                  |                 | 8               |                          | I      |
| 5845           | 257 | 82/09/14                  | 2352:51                  | 2353:11                 | 62              | 69                  |                 | 2               |                          |        |
| 5846           | 258 | 82/09/15                  | 0214:05                  | 0218:02                 | 519             | 70                  | 3191            | 2               | 185, 11                  |        |
| 7703           | 258 | 82/09/15                  | 0532:09                  | 0532:44                 | 57              | 49                  |                 | 3               |                          | I      |
| 7713           | 258 | 82/09/15                  | 2248:59                  | 2249:22                 | 38              | 67                  |                 | 2               |                          | I, ND  |
| 5856           | 259 | 82/09/16                  | 0822:53                  | 0823:25                 | 74              | 56                  |                 | 14              |                          |        |
| 5854           | 260 | 82/09/17                  | 0301:53                  | 0302:31                 | 110             | 61                  |                 | 2               |                          | EW     |
| 7714           | 260 | 82/09/17                  | 1354:59                  | 1355:50                 | 145             | 90                  |                 | 2               |                          | I      |
| 5855           | 261 | 82/09/18                  | 1508:11                  | 1508:52                 | 109             | 60                  |                 | 2               |                          |        |
| 7724           | 261 | 82/09/18                  | 1639:24                  | 1639:52                 | 124             | 311                 | 6083            | 3               | 237, 12                  | I      |
| 5858           | 263 | 82/09/20                  | 1131:18                  | 1131:25                 | 21              | 118                 | 736             | 10              | 255, 9                   |        |
| 7737           | 263 | 82/09/20                  | 2217:42                  | 2217:52                 | 25              | 62                  |                 | 5               |                          | I      |
| 7738           | 264 | 82/09/21                  | 1106:27                  | 1106:42                 | 37              | 80                  |                 | 2               |                          | I      |
| 7739           | 265 | 82/09/22                  | 0922:52                  | 0923:20                 | 66              | 77                  |                 | 2               |                          | I      |
| 7740           | 265 | 82/09/22                  | 1121:02                  | 1122:12                 | 82              | 63                  |                 | 2               |                          | I      |
| 7741           | 265 | 82/09/22                  | 1132:50                  | 1133:51                 | 126             | 74                  |                 | 4               |                          | I      |
| 5864           | 266 | 82/09/23                  | 0854:17                  | 0854:28                 | 30              | 94                  |                 | 6               |                          |        |
| 7744           | 267 | 82/09/24                  | 1142:13                  | 1142:24                 | 44              | 63                  |                 | 2               |                          | I      |
| 7748           | 269 | 82/09/26                  | 1304:38                  | 1305:47                 | 145             | 73                  |                 | 2               |                          | I      |
| 5867           | 269 | 82/09/26                  | 1421:23                  | 1425:46                 | 408             | 145                 | 11577           | 5               | 186, 3                   | EG, AX |
| 5868           | 270 | 82/09/27                  | 0141:39                  | 0142:17                 | 101             | 102                 | 1730            | 2               | 186, 4                   |        |
| 7749           | 270 | 82/09/27                  | 0251:20                  | 0251:57                 | 80              | 64                  |                 | 13              |                          | I      |
| 5869           | 271 | 82/09/28                  | 0815:52                  | 0816:14                 | 41              | 63                  |                 | 2               |                          |        |
| 5870           | 271 | 82/09/28                  | 2330:53                  | 2331:20                 | 89              | 2052                | 31286           | 7               | 186, 5                   | M5     |
| 5871           | 272 | 82/09/29                  | 0220:44                  | 0220:52                 | 13              | 62                  |                 | 2               |                          |        |
| 7751           | 272 | 82/09/29                  | 1341:58                  | 1342:23                 | 37              | 63                  |                 | 2               |                          | I      |
| 7752           | 272 | 82/09/29                  | 1518:12                  | 1523:33                 | 522             | 394                 | 31748           | 4               | 238, 6                   | I, ES  |
| 5872           | 272 | 82/09/29                  | 1842:17                  | 1842:26                 | 28              | 56                  |                 | 2               |                          | ES     |
| 5873           | 272 | 82/09/29                  | 2014:57                  | 2015:32                 | 95              | 69                  |                 | 2               |                          |        |
| 5874           | 272 | 82/09/29                  | 2016:33                  | 2017:33                 | 146             | 94                  |                 | 2               |                          |        |
| 5875           | 273 | 82/09/30                  | 0836:23                  | 0837:19                 | 362             | 124                 | 2792            | 2               | 186, 7                   |        |
| 5876           | 273 | 82/09/30                  | 1033:24                  | 1036:39                 | 335             | 125                 | 4553            | 2               | 186, 8                   | AX     |
| 5877           | 273 | 82/09/30                  | 1203:58                  | 1204:54                 | 902             | 164                 | 22759           | 13              | 186, 9                   | AX     |
| 5878           | 273 | 82/09/30                  | 1630:26                  | 1632:29                 | 211             | 110                 | 3022            | 2               | 186, 10                  |        |
| 7753           | 273 | 82/09/30                  | 2308:48                  | 2309:15                 | 34              | 67                  |                 | 2               |                          | I      |
| 5879           | 275 | 82/10/02                  | 1239:34                  | 1239:56                 | 52              | 66                  |                 | 2               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS      |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|------------|
| 7757           | 275 | 82/10/02                  | 1407:46                  | 1407:56                 | 60              | 70                  |                 | 3               |                          |            |
| 7758           | 275 | 82/10/02                  | 1903:03                  | 1903:28                 | 47              | 60                  |                 | 2               |                          |            |
| 7759           | 275 | 82/10/02                  | 2105:54                  | 2105:58                 | 15              | 68                  |                 | 2               |                          | I          |
| 5880           | 276 | 82/10/03                  | 0440:27                  | 0440:47                 | 58              | 75                  |                 | 2               |                          | I          |
| 5881           | 276 | 82/10/03                  | 2012:19                  | 2012:34                 | 93              | 63                  |                 | 2               |                          |            |
| 5886           | 277 | 82/10/04                  | 0403:42                  | 0405:32                 | 132             | 64                  |                 | 2               |                          | EW         |
| 5882           | 277 | 82/10/04                  | 0612:42                  | 0612:50                 | 27              | 176                 | 604             | 2               | 186, 11                  | EW         |
| 5883           | 277 | 82/10/04                  | 0750:10                  | 0750:23                 | 46              | 351                 | 3504            | 3               | 186, 12                  |            |
| 5885           | 277 | 82/10/04                  | 1648:40                  | 1649:06                 | 44              | 72                  |                 | 2               |                          |            |
| 5888           | 278 | 82/10/05                  | 2143:14                  | 2144:51                 | 200             | 74                  |                 | 2               |                          |            |
| 5890           | 279 | 82/10/06                  | 0353:52                  | 0355:39                 | 128             | 208                 | 40639           | 3               | 186, 15                  | ND         |
| 5887           | 279 | 82/10/06                  | 0544:33                  | 0545:28                 | 116             | 63                  |                 | 2               |                          |            |
| 7762           | 279 | 82/10/06                  | 2126:19                  | 2126:40                 | 85              | 63                  |                 | 2               |                          |            |
| 5889           | 279 | 82/10/06                  | 2301:36                  | 2303:36                 | 526             | 1278                | 1.26E+05        | 3               | 186, 14                  | I          |
| 7763           | 280 | 82/10/07                  | 0656:40                  | 0657:13                 | 79              | 87                  |                 | 2               |                          | M5         |
| 7766           | 285 | 82/10/12                  | 2249:12                  | 2249:21                 | 17              | 58                  |                 | 2               |                          | I          |
| 7767           | 285 | 82/10/12                  | 2250:10                  | 2250:15                 | 59              | 11                  |                 | 2               |                          | I          |
| 5891           | 286 | 82/10/13                  | 0655:26                  | 0655:41                 | 32              | 59                  |                 | 2               |                          | I          |
| 5892           | 287 | 82/10/14                  | 0014:36                  | 0014:59                 | 40              | 415                 | 4244            | 4               | 186, 16                  |            |
| 5893           | 287 | 82/10/14                  | 0151:07                  | 0151:13                 | 12              | 82                  |                 | 2               |                          |            |
| 5894           | 287 | 82/10/14                  | 0152:30                  | 0152:51                 | 148             | 243                 | 4307            | 3               | 187, 1                   |            |
| 5895           | 288 | 82/10/15                  | 2035:50                  | 2037:39                 | 680             | 214                 | 15863           | 3               | 187, 2                   |            |
| 5896           | 289 | 82/10/16                  | 2122:30                  | 2122:53                 | 55              | 68                  |                 | 2               |                          |            |
| 5897           | 289 | 82/10/16                  | 2131:21                  | 2132:16                 | 149             | 71                  |                 | 4               |                          |            |
| 5898           | 290 | 82/10/17                  | 2108:42                  | 2109:06                 | 68              | 71                  |                 | 5               |                          |            |
| 5899           | 290 | 82/10/17                  | 2326:23                  | 2330:37                 | 303             | 127                 | 3866            | 6               | 187, 3                   |            |
| 5900           | 291 | 82/10/18                  | 0201:15                  | 0202:41                 | 140             | 74                  |                 | 3               |                          |            |
| 5901           | 291 | 82/10/18                  | 0417:47                  | 0417:51                 | 208             | 58                  |                 | 3               |                          |            |
| 5902           | 292 | 82/10/19                  | 0007:50                  | 0009:15                 | 161             | 62                  |                 | 2               |                          | AX,EW      |
| 6735           | 292 | 82/10/19                  | 0636:49                  | 0637:02                 | 28              | 97                  |                 | 2               |                          |            |
| 5903           | 292 | 82/10/19                  | 1133:26                  | 1139:29                 | 501             | 285                 | 9735            | 2               | 187, 4                   |            |
| 5904           | 292 | 82/10/19                  | 1803:15                  | 1803:39                 | 96              | 91                  |                 | 2               |                          |            |
| 5905           | 292 | 82/10/19                  | 1919:43                  | 1920:11                 | 81              | 58                  |                 | 2               |                          |            |
| 7771           | 292 | 82/10/19                  | 2211:00                  | 2211:02                 | 84              | 61                  |                 | 2               |                          | I          |
| 5906           | 293 | 82/10/20                  | 0123:24                  | 0123:57                 | 83              | 72                  |                 | 2               |                          |            |
| 5907           | 294 | 82/10/21                  | 0107:17                  | 0108:04                 | 157             | 79                  |                 | 3               |                          | AX         |
| 5908           | 294 | 82/10/21                  | 0133:35                  | 0134:09                 | 68              | 59                  |                 | 2               |                          |            |
| 5909           | 294 | 82/10/21                  | 0812:12                  | 0812:57                 | 51              | 71                  |                 | 2               |                          |            |
| 7772           | 294 | 82/10/21                  | 1602:53                  | 1603:08                 | 32              | 85                  |                 | 2               |                          | I          |
| 7773           | 294 | 82/10/21                  | 1603:28                  | 1603:44                 | 38              | 62                  |                 | 2               |                          | I          |
| 5910           | 294 | 82/10/21                  | 2001:29                  | 2002:17                 | 98              | 55                  |                 | 2               |                          |            |
| 5911           | 294 | 82/10/21                  | 2215:43                  | 2216:29                 | 108             | 121                 | 3187            | 3               | 187, 5                   |            |
| 7774           | 295 | 82/10/22                  | 0911:21                  | 0911:45                 | 70              | 59                  |                 | 2               |                          | I          |
| 5912           | 295 | 82/10/22                  | 2121:59                  | 2122:43                 | 90              | 64                  |                 | 2               |                          | EW         |
| 5913           | 295 | 82/10/22                  | 2156:40                  | 2157:31                 | 103             | 72                  |                 | 6               |                          | EW         |
| 7778           | 296 | 82/10/23                  | 0029:30                  | 0030:20                 | 165             | 74                  |                 | 2               |                          | I          |
| 7779           | 296 | 82/10/23                  | 0225:05                  | 0225:32                 | 87              | 57                  |                 | 2               |                          | I          |
| 7780           | 296 | 82/10/23                  | 1219:17                  | 1219:29                 | 25              | 74                  |                 | 2               |                          | I          |
| 7781           | 296 | 82/10/23                  | 2241:02                  | 2242:12                 | 114             | 58                  |                 | 2               |                          | I          |
| 7782           | 297 | 82/10/24                  | 0019:53                  | 0020:00                 | 29              | 55                  |                 | 2               |                          | I          |
| 7783           | 297 | 82/10/24                  | 0156:03                  | 0156:13                 | 18              | 60                  |                 | 2               |                          | I          |
| 7784           | 297 | 82/10/24                  | 0200:50                  | 0201:07                 | 95              | 62                  |                 | 2               |                          | I          |
| 7785           | 297 | 82/10/24                  | 0409:18                  | 0409:43                 | 96              | 155                 | 2297            | 2               | 238, 11                  | I          |
| 7786           | 297 | 82/10/24                  | 0519:59                  | 0520:09                 | 24              | 146                 | 682             | 2               | 238, 12                  | I          |
| 7787           | 297 | 82/10/24                  | 0532:16                  | 0534:54                 | 340             | 133                 | 5617            | 2               | 238, 13                  | I          |
| 7788           | 297 | 82/10/24                  | 0652:18                  | 0652:33                 | 89              | 94                  |                 | 8               |                          | I          |
| 7789           | 297 | 82/10/24                  | 0703:47                  | 0704:30                 | 115             | 195                 | 3423            | 2               | 238, 14                  | I          |
| 7790           | 297 | 82/10/24                  | 0826:06                  | 0827:13                 | 115             | 149                 | 3819            | 2               | 238, 15                  | I          |
| 7791           | 297 | 82/10/24                  | 1503:46                  | 1504:47                 | 117             | 227                 | 3118            | 2               | 238, 16                  | I          |
| 7792           | 297 | 82/10/24                  | 1508:19                  | 1511:21                 | 439             | 1899                | 90593           | 6               | 238, 16                  | M5, I , EN |
| 7793           | 297 | 82/10/24                  | 2122:34                  | 2122:38                 | 18              | 62                  |                 | 2               |                          | I          |
| 7794           | 297 | 82/10/24                  | 2238:56                  | 2239:16                 | 52              | 129                 | 970             | 2               | 239, 1                   | I          |
| 7796           | 297 | 82/10/24                  | 2352:27                  | 2354:10                 | 197             | 85                  |                 | 3               |                          | I          |
| 7797           | 298 | 82/10/25                  | 0025:36                  | 0026:39                 | 117             | 134                 | 2192            | 2               | 239, 3                   | I          |
| 7798           | 298 | 82/10/25                  | 0326:12                  | 0331:54                 | 710             | 78                  | 8016            | 2               | 239, 4                   | I          |
| 7799           | 298 | 82/10/25                  | 0528:36                  | 0529:00                 | 76              | 68                  |                 | 2               |                          | I          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 5914           | 298 | 82/10/25                  | 1130:58                  | 1131:11                 | 173             | 95                  |                 | 2               |                          | EW        |
| 5915           | 298 | 82/10/25                  | 1552:01                  | 1552:45                 | 70              | 58                  |                 | 2               |                          |           |
| 5916           | 298 | 82/10/25                  | 1557:31                  | 1559:00                 | 188             | 74                  |                 | 2               |                          |           |
| 5917           | 298 | 82/10/25                  | 1845:06                  | 1845:52                 | 88              | 89                  |                 | 2               |                          |           |
| 7804           | 298 | 82/10/25                  | 1847:45                  | 1848:03                 | 42              | 71                  |                 | 2               |                          |           |
| 7805           | 298 | 82/10/25                  | 1910:18                  | 1910:52                 | 46              | 57                  |                 | 2               |                          |           |
| 5918           | 298 | 82/10/25                  | 2249:32                  | 2253:33                 | 262             | 487                 | 31758           | 5               | 187, 6                   |           |
| 7800           | 298 | 82/10/25                  | 2331:29                  | 2332:09                 | 68              | 55                  |                 | 2               |                          | I         |
| 5919           | 299 | 82/10/26                  | 0025:20                  | 0025:45                 | 93              | 1046                | 13934           | 5               | 187, 7                   |           |
| 5920           | 299 | 82/10/26                  | 0137:38                  | 0138:02                 | 31              | 73                  |                 | 2               |                          |           |
| 5921           | 299 | 82/10/26                  | 2014:42                  | 2015:08                 | 37              | 56                  |                 | 2               |                          |           |
| 5922           | 299 | 82/10/26                  | 2204:11                  | 2204:22                 | 110             | 100                 | 1619            | 2               |                          |           |
| 5923           | 300 | 82/10/27                  | 0052:19                  | 0052:43                 | 156             | 145                 | 2130            | 2               | 187, 8                   |           |
| 5924           | 300 | 82/10/27                  | 0303:24                  | 0305:16                 | 210             | 829                 | 23467           | 3               | 187, 9                   |           |
| 5925           | 300 | 82/10/27                  | 0409:01                  | 0409:17                 | 401             | 826                 | 75549           | 4               | 187, 10                  | SA        |
| 5926           | 300 | 82/10/27                  | 0427:46                  | 0436:00                 | 1568            | 1108                | 2.88E+05        | 8               | 187, 10                  | M5        |
| 5927           | 300 | 82/10/27                  | 0751:37                  | 0751:50                 | 26              | 88                  |                 | 2               |                          |           |
| 5928           | 300 | 82/10/27                  | 1045:44                  | 1045:57                 | 103             | 87                  |                 | 2               |                          |           |
| 5929           | 300 | 82/10/27                  | 1545:17                  | 1545:49                 | 56              | 86                  |                 | 2               |                          | EW        |
| 7801           | 300 | 82/10/27                  | 1646:39                  | 1646:53                 | 30              | 56                  |                 | 2               |                          | I         |
| 5930           | 300 | 82/10/27                  | 1827:23                  | 1827:50                 | 45              | 59                  |                 | 2               |                          | EW        |
| 5931           | 300 | 82/10/27                  | 1950:58                  | 1951:18                 | 63              | 64                  |                 | 2               |                          | EW        |
| 5932           | 300 | 82/10/27                  | 2007:48                  | 2007:59                 | 87              | 63                  |                 | 2               |                          | EW        |
| 5933           | 300 | 82/10/27                  | 2013:10                  | 2013:16                 | 40              | 53                  |                 | 2               |                          | EW        |
| 5934           | 300 | 82/10/27                  | 2017:26                  | 2019:25                 | 220             | 214                 | 11396           | 3               | 187, 11                  | EW        |
| 5935           | 301 | 82/10/28                  | 0352:05                  | 0352:31                 | 58              | 168                 | 2598            | 4               | 187, 12                  |           |
| 7802           | 302 | 82/10/29                  | 1347:11                  | 1348:54                 | 260             | 83                  | 4145            | 2               | 239, 5                   | I         |
| 7803           | 302 | 82/10/29                  | 1437:15                  | 1437:25                 | 35              | 61                  |                 | 8               |                          | I         |
| 7806           | 302 | 82/10/29                  | 1912:43                  | 1913:24                 | 123             | 90                  |                 | 4               |                          | I         |
| 5936           | 303 | 82/10/30                  | 0350:03                  | 0350:18                 | 38              | 85                  |                 | 2               |                          |           |
| 5937           | 303 | 82/10/30                  | 1730:26                  | 1730:47                 | 62              | 89                  |                 | 2               |                          |           |
| 5938           | 303 | 82/10/30                  | 1933:36                  | 1934:54                 | 195             | 89                  |                 | 13              |                          | AX        |
| 7892           | 304 | 82/10/31                  | 1400:24                  | 1400:31                 | 18              | 86                  |                 | 15              |                          | I         |
| 5939           | 304 | 82/10/31                  | 2211:42                  | 2211:51                 | 22              | 51                  |                 | 2               |                          |           |
| 7807           | 305 | 82/11/01                  | 1847:49                  | 1848:10                 | 60              | 99                  |                 | 2               |                          | I ,SG     |
| 5940           | 305 | 82/11/01                  | 1953:51                  | 1954:07                 | 57              | 150                 | 2296            | 7               | 187, 13                  | SN,AX     |
| 5941           | 305 | 82/11/01                  | 2006:04                  | 2008:37                 | 263             | 107                 | 3281            | 2               | 187, 13                  |           |
| 5942           | 305 | 82/11/01                  | 2204:26                  | 2205:54                 | 170             | 69                  |                 | 5               |                          |           |
| 5943           | 305 | 82/11/01                  | 2217:48                  | 2218:56                 | 162             | 83                  |                 | 5               |                          |           |
| 5944           | 306 | 82/11/02                  | 0131:51                  | 0131:54                 | 10              | 112                 | 243             | 14              | 187, 14                  |           |
| 7808           | 306 | 82/11/02                  | 0912:27                  | 0914:37                 | 242             | 117                 | 1976            | 2               | 239, 6                   | I         |
| 5945           | 306 | 82/11/02                  | 1221:39                  | 1222:11                 | 71              | 55                  |                 | 2               |                          |           |
| 5946           | 306 | 82/11/02                  | 1626:49                  | 1627:57                 | 128             | 132                 | 3317            | 2               | 187, 15                  |           |
| 7809           | 306 | 82/11/02                  | 2201:43                  | 2203:18                 | 151             | 110                 | 2875            | 2               | 239, 7                   | I         |
| 7810           | 307 | 82/11/03                  | 0048:46                  | 0049:53                 | 137             | 237                 | 26373           | 3               | 239, 8                   | I         |
| 5947           | 307 | 82/11/03                  | 0349:29                  | 0350:11                 | 145             | 206                 | 4279            | 3               | 187, 16                  |           |
| 5948           | 307 | 82/11/03                  | 0709:44                  | 0711:04                 | 148             | 89                  |                 | 2               |                          |           |
| 5949           | 307 | 82/11/03                  | 0735:12                  | 0735:25                 | 25              | 112                 | 658             | 2               | 188, 1                   |           |
| 5950           | 307 | 82/11/03                  | 2140:02                  | 2140:28                 | 77              | 68                  |                 | 15              |                          | AX        |
| 6784           | 308 | 82/11/04                  | 0329:58                  | 0331:04                 | 81              | 237                 | 19558           | 15              | 213, 14                  | M5, I ,FS |
| 5951           | 308 | 82/11/04                  | 0849:49                  | 0849:55                 | 55              | 64                  |                 | 14              |                          |           |
| 5952           | 308 | 82/11/04                  | 1435:03                  | 1435:31                 | 67              | 67                  |                 | 2               |                          |           |
| 7811           | 309 | 82/11/05                  | 1137:19                  | 1137:28                 | 54              | 103                 | 1353            | 12              | 239, 9                   | I         |
| 7812           | 311 | 82/11/07                  | 0854:21                  | 0854:37                 | 45              | 54                  |                 | 3               | 239, 10                  | I         |
| 7813           | 311 | 82/11/07                  | 0855:22                  | 0855:31                 | 31              | 110                 | 670             | 5               | 239, 10                  | I         |
| 7814           | 311 | 82/11/07                  | 0856:53                  | 0857:48                 | 103             | 116                 | 1675            | 5               | 239, 10                  | I         |
| 5953           | 311 | 82/11/07                  | 1101:34                  | 1102:14                 | 91              | 54                  |                 | 11              |                          | AX        |
| 7815           | 312 | 82/11/08                  | 1015:13                  | 1015:36                 | 129             | 76                  |                 | 2               |                          | I         |
| 7816           | 312 | 82/11/08                  | 1017:35                  | 1018:06                 | 71              | 75                  |                 | 2               |                          | I         |
| 5954           | 312 | 82/11/08                  | 1216:31                  | 1217:36                 | 94              | 81                  |                 | 2               |                          |           |
| 5955           | 312 | 82/11/08                  | 1218:45                  | 1219:08                 | 52              | 62                  |                 | 2               |                          |           |
| 5956           | 312 | 82/11/08                  | 1223:31                  | 1223:56                 | 38              | 69                  |                 | 2               |                          |           |
| 5957           | 312 | 82/11/08                  | 1531:46                  | 1532:53                 | 109             | 140                 | 2903            | 2               | 188, 2                   |           |
| 7817           | 312 | 82/11/08                  | 1655:44                  | 1655:58                 | 33              | 69                  |                 | 2               |                          | I         |
| 5958           | 314 | 82/11/10                  | 0022:17                  | 0022:39                 | 135             | 99                  |                 | 2               |                          |           |
| 7818           | 314 | 82/11/10                  | 0349:58                  | 0350:29                 | 68              | 71                  |                 | 2               |                          | I         |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS         |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------------|
| 5959           | 314 | 82/11/10                  | 1757:03                  | 1759:04                 | 134             | 96                  |                 | 2               |                          | AX            |
| 5960           | 314 | 82/11/10                  | 1921:08                  | 1921:33                 | 56              | 65                  |                 | 2               |                          |               |
| 5961           | 315 | 82/11/11                  | 0216:21                  | 0216:49                 | 58              | 121                 | 1225            | 2               | 188, 3                   | EN            |
| 5962           | 315 | 82/11/11                  | 0629:57                  | 0630:13                 | 43              | 85                  |                 | 2               |                          | EW            |
| 5963           | 315 | 82/11/11                  | 0656:50                  | 0657:10                 | 80              | 71                  |                 | 2               |                          | EW            |
| 7819           | 315 | 82/11/11                  | 0810:18                  | 0810:39                 | 43              | 129                 | 1508            | 2               | 239, 11                  | I             |
| 7822           | 316 | 82/11/12                  | 1417:46                  | 1432:03                 | 1301            | 2309                | 7.52E+05        | 14              | 239, 14                  | M5, I, EN, SG |
| 7823           | 316 | 82/11/12                  | 1708:44                  | 1709:19                 | 59              | 61                  |                 | 2               |                          | I             |
| 7824           | 316 | 82/11/12                  | 2026:26                  | 2026:49                 | 42              | 211                 | 1929            | 2               | 239, 15                  | I             |
| 7825           | 316 | 82/11/12                  | 2147:19                  | 2147:28                 | 15              | 64                  |                 | 2               |                          | I             |
| 7826           | 317 | 82/11/13                  | 2257:50                  | 2258:12                 | 47              | 93                  |                 | 2               |                          | I             |
| 7827           | 318 | 82/11/14                  | 0025:51                  | 0031:30                 | 623             | 64                  | 23988           | 2               | 239, 16                  | I             |
| 7828           | 318 | 82/11/14                  | 1944:08                  | 1944:27                 | 28              | 66                  |                 | 2               |                          | I             |
| 5964           | 319 | 82/11/15                  | 1614:22                  | 1616:11                 | 390             | 496                 | 56681           | 3               | 188, 4                   |               |
| 7829           | 320 | 82/11/16                  | 2043:51                  | 2044:35                 | 183             | 82                  |                 | 2               |                          | I             |
| 5965           | 321 | 82/11/17                  | 1039:27                  | 1040:09                 | 166             | 98                  |                 | 2               |                          |               |
| 5966           | 321 | 82/11/17                  | 1042:42                  | 1043:01                 | 114             | 81                  |                 | 2               |                          |               |
| 7830           | 321 | 82/11/17                  | 1357:56                  | 1402:37                 | 557             | 2152                | 2.43E+05        | 3               | 240, 1                   | M5, I         |
| 5967           | 322 | 82/11/18                  | 0122:44                  | 0123:58                 | 192             | 113                 | 5248            | 2               | 188, 5                   | EW            |
| 5968           | 322 | 82/11/18                  | 0302:51                  | 0303:39                 | 135             | 112                 | 2007            | 2               | 188, 2                   |               |
| 5969           | 322 | 82/11/18                  | 0454:15                  | 0455:00                 | 200             | 98                  |                 | 2               |                          |               |
| 7831           | 322 | 82/11/18                  | 2151:15                  | 2151:20                 | 36              | 90                  |                 | 2               |                          | I             |
| 5974           | 323 | 82/11/19                  | 0528:42                  | 0529:57                 | 565             | 393                 | 61752           | 3               | 188, 9                   |               |
| 5970           | 323 | 82/11/19                  | 0729:59                  | 0731:11                 | 195             | 89                  |                 | 2               |                          |               |
| 5971           | 323 | 82/11/19                  | 2314:35                  | 2315:26                 | 102             | 136                 | 2014            | 2               | 188, 7                   |               |
| 5972           | 323 | 82/11/19                  | 2318:32                  | 2318:50                 | 32              | 88                  |                 | 2               |                          |               |
| 5973           | 324 | 82/11/20                  | 0156:15                  | 0215:24                 | 1602            | 152                 | 37482           | 2               | 188, 8                   |               |
| 5975           | 324 | 82/11/20                  | 1010:06                  | 1012:03                 | 453             | 3269                | 3.61E+05        | 5               | 188, 10                  |               |
| 7832           | 324 | 82/11/20                  | 1432:47                  | 1433:17                 | 55              | 98                  |                 | 2               |                          | I             |
| 5976           | 324 | 82/11/20                  | 2235:02                  | 2235:21                 | 44              | 125                 | 1291            | 2               | 188, 12                  |               |
| 7833           | 324 | 82/11/20                  | 2254:49                  | 2254:59                 | 41              | 72                  |                 | 2               |                          | I             |
| 7834           | 325 | 82/11/21                  | 0001:17                  | 0001:29                 | 34              | 76                  |                 | 2               |                          | I             |
| 5977           | 325 | 82/11/21                  | 0135:26                  | 0136:14                 | 70              | 93                  |                 | 2               |                          | EW            |
| 7835           | 325 | 82/11/21                  | 0815:55                  | 0816:05                 | 16              | 90                  |                 | 2               |                          | I             |
| 7836           | 325 | 82/11/21                  | 0925:46                  | 0926:23                 | 82              | 105                 | 1576            | 2               | 240, 2                   | I             |
| 7837           | 325 | 82/11/21                  | 1019:42                  | 1020:51                 | 264             | 265                 | 26515           | 2               | 240, 3                   | I             |
| 7838           | 325 | 82/11/21                  | 1154:37                  | 1154:50                 | 84              | 91                  |                 | 2               |                          | I             |
| 7839           | 325 | 82/11/21                  | 1158:27                  | 1158:33                 | 26              | 210                 | 1080            | 2               | 240, 4                   | I             |
| 7840           | 325 | 82/11/21                  | 1416:11                  | 1419:37                 | 616             | 1409                | 1.36E+05        | 3               | 240, 5                   | M5, I         |
| 7841           | 325 | 82/11/21                  | 1741:44                  | 1742:01                 | 38              | 78                  |                 | 2               |                          | I             |
| 7842           | 325 | 82/11/21                  | 2035:15                  | 2035:57                 | 70              | 200                 | 3064            | 3               | 240, 6                   | I             |
| 5978           | 325 | 82/11/21                  | 2355:18                  | 2355:27                 | 50              | 132                 | 811             | 2               | 188, 13                  |               |
| 5979           | 326 | 82/11/22                  | 0339:08                  | 0339:22                 | 50              | 63                  |                 | 2               |                          |               |
| 5980           | 326 | 82/11/22                  | 0450:03                  | 0450:46                 | 125             | 177                 | 3668            | 2               | 188, 14                  |               |
| 6729           | 326 | 82/11/22                  | 0738:32                  | 0738:41                 | 19              | 52                  |                 | 2               |                          | I             |
| 6730           | 326 | 82/11/22                  | 0739:03                  | 0739:08                 | 22              | 72                  |                 | 2               |                          | I             |
| 6731           | 326 | 82/11/22                  | 0746:37                  | 0746:47                 | 48              | 90                  |                 | 2               |                          | I             |
| 6732           | 326 | 82/11/22                  | 0925:49                  | 0927:24                 | 124             | 121                 | 940             | 2               | 211, 8                   | I             |
| 5981           | 326 | 82/11/22                  | 1129:18                  | 1129:30                 | 149             | 210                 | 2304            | 5               | 188, 15                  |               |
| 5982           | 326 | 82/11/22                  | 1139:06                  | 1139:27                 | 110             | 62                  |                 | 2               |                          |               |
| 5983           | 326 | 82/11/22                  | 1219:55                  | 1220:02                 | 20              | 55                  |                 | 2               |                          |               |
| 6733           | 326 | 82/11/22                  | 1222:12                  | 1223:18                 | 393             | 9983                | 1.69E+05        | 11              | 211, 9                   | M5, I         |
| 5984           | 326 | 82/11/22                  | 1444:06                  | 1444:14                 | 30              | 1798                | 11326           | 10              | 188, 16                  | M5            |
| 5985           | 326 | 82/11/22                  | 1450:34                  | 1450:39                 | 12              | 118                 | 341             | 4               | 188, 16                  |               |
| 5986           | 326 | 82/11/22                  | 1533:40                  | 1533:44                 | 30              | 105                 | 416             | 2               | 189, 1                   |               |
| 5987           | 326 | 82/11/22                  | 1537:44                  | 1537:53                 | 104             | 144                 | 2071            | 3               | 189, 1                   |               |
| 5988           | 326 | 82/11/22                  | 1702:00                  | 1702:08                 | 164             | 286                 | 6662            | 8               | 189, 2                   | SN            |
| 6775           | 326 | 82/11/22                  | 1759:45                  | 1759:55                 | 4213            | 547                 | 14309           | 5               | 212, 10                  | I, EN, IN, SA |
| 6776           | 326 | 82/11/22                  | 2028:05                  | 2028:14                 | 65              | 81                  |                 | 2               |                          | I             |
| 6777           | 326 | 82/11/22                  | 2047:45                  | 2047:55                 | 15              | 83                  |                 | 2               |                          | I             |
| 6778           | 326 | 82/11/22                  | 2150:13                  | 2150:20                 | 34              | 66                  |                 | 2               | 212, 11                  | I             |
| 6779           | 326 | 82/11/22                  | 2151:55                  | 2154:38                 | 436             | 186                 | 12566           | 2               | 212, 11                  | I             |
| 6780           | 326 | 82/11/22                  | 2321:12                  | 2321:42                 | 51              | 86                  |                 | 2               |                          | I             |
| 6781           | 326 | 82/11/22                  | 2329:11                  | 2329:19                 | 29              | 292                 | 1901            | 3               | 212, 12                  | I             |
| 6782           | 326 | 82/11/22                  | 2343:58                  | 2346:04                 | 417             | 168                 | 17109           | 2               | 212, 13                  | I             |
| 6783           | 326 | 82/11/22                  | 2353:00                  | 2353:46                 | 66              | 61                  |                 | 2               | 212, 13                  | I             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS         |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------------|
| 7843           | 327 | 82/11/23                  | 0125:04                  | 0125:52                 | 85              | 79                  |                 | 2               |                          | I             |
| 7844           | 327 | 82/11/23                  | 0153:08                  | 0153:19                 | 35              | 126                 | 901             | 3               | 240, 7                   | I             |
| 5989           | 327 | 82/11/23                  | 0245:21                  | 0245:54                 | 49              | 111                 | 549             | 2               | 189, 3                   | EW            |
| 5990           | 327 | 82/11/23                  | 0317:21                  | 0317:39                 | 88              | 3734                | 72240           | 8               | 189, 4                   | EW            |
| 5991           | 327 | 82/11/23                  | 0324:54                  | 0325:44                 | 100             | 136                 | 1594            | 5               | 189, 4                   | EW            |
| 7845           | 327 | 82/11/23                  | 0406:44                  | 0406:57                 | 92              | 131                 | 1796            | 2               | 240, 8                   | I             |
| 7846           | 327 | 82/11/23                  | 0427:33                  | 0428:10                 | 124             | 412                 | 6889            | 3               | 240, 9                   | I             |
| 7847           | 327 | 82/11/23                  | 0548:26                  | 0548:33                 | 13              | 71                  |                 | 2               |                          | I             |
| 7848           | 327 | 82/11/23                  | 0628:03                  | 0629:02                 | 99              | 114                 | 2671            | 2               | 240, 10                  | I             |
| 7849           | 327 | 82/11/23                  | 0633:54                  | 0634:01                 | 18              | 70                  |                 | 2               |                          | I             |
| 7850           | 327 | 82/11/23                  | 0715:17                  | 0715:30                 | 137             | 100                 |                 | 2               |                          | I             |
| 7851           | 327 | 82/11/23                  | 0805:50                  | 0806:28                 | 390             | 3715                | 72373           | 8               | 240, 11                  | M5, I         |
| 7852           | 327 | 82/11/23                  | 0859:17                  | 0859:57                 | 48              | 72                  |                 | 2               |                          | I             |
| 7853           | 327 | 82/11/23                  | 0920:27                  | 0921:07                 | 118             | 217                 | 10670           | 2               | 240, 12                  | I             |
| 5992           | 327 | 82/11/23                  | 1032:54                  | 1033:24                 | 77              | 113                 | 863             | 2               | 189, 5                   |               |
| 5993           | 327 | 82/11/23                  | 1107:34                  | 1108:14                 | 78              | 74                  |                 | 2               |                          |               |
| 5994           | 327 | 82/11/23                  | 1111:08                  | 1111:35                 | 104             | 264                 | 3093            | 5               | 189, 6                   |               |
| 5995           | 327 | 82/11/23                  | 1113:35                  | 1115:26                 | 199             | 132                 | 3843            | 2               | 189, 6                   |               |
| 5996           | 327 | 82/11/23                  | 1117:58                  | 1120:57                 | 307             | 321                 | 7101            | 8               | 189, 6                   | M5            |
| 5997           | 327 | 82/11/23                  | 1202:18                  | 1202:52                 | 51              | 122                 | 1497            | 4               | 189, 7                   |               |
| 5998           | 327 | 82/11/23                  | 1246:53                  | 1247:37                 | 218             | 171                 | 6945            | 5               | 189, 8                   |               |
| 5999           | 327 | 82/11/23                  | 1335:13                  | 1336:55                 | 142             | 58                  |                 | 2               |                          |               |
| 6000           | 327 | 82/11/23                  | 1340:09                  | 1340:38                 | 161             | 119                 | 1889            | 4               | 189, 9                   |               |
| 6001           | 327 | 82/11/23                  | 1344:56                  | 1345:49                 | 250             | 2201                | 65222           | 10              | 189, 9                   | M5            |
| 6002           | 327 | 82/11/23                  | 1425:49                  | 1426:11                 | 112             | 97                  |                 | 2               |                          |               |
| 6003           | 327 | 82/11/23                  | 1431:28                  | 1431:52                 | 97              | 404                 | 5472            | 7               | 189, 10                  |               |
| 6004           | 327 | 82/11/23                  | 1510:48                  | 1511:53                 | 100             | 195                 | 4559            | 5               | 189, 11                  |               |
| 6005           | 327 | 82/11/23                  | 1517:09                  | 1517:58                 | 79              | 149                 | 1527            | 3               | 189, 11                  |               |
| 6006           | 327 | 82/11/23                  | 1519:49                  | 1520:19                 | 155             | 183                 | 5285            | 4               | 189, 11                  |               |
| 6007           | 327 | 82/11/23                  | 1606:46                  | 1607:00                 | 69              | 81                  |                 | 2               |                          |               |
| 6008           | 327 | 82/11/23                  | 1652:27                  | 1652:51                 | 71              | 572                 | 6824            | 6               | 189, 12                  | FS            |
| 6009           | 327 | 82/11/23                  | 1820:02                  | 1820:14                 | 51              | 71                  |                 | 2               |                          |               |
| 6010           | 327 | 82/11/23                  | 1958:38                  | 1959:37                 | 177             | 78                  |                 | 2               |                          |               |
| 6011           | 327 | 82/11/23                  | 2020:45                  | 2021:05                 | 44              | 83                  |                 | 2               |                          |               |
| 7855           | 327 | 82/11/23                  | 2315:29                  | 2315:50                 | 42              | 186                 | 2052            | 2               | 240, 14                  | I             |
| 7856           | 327 | 82/11/23                  | 2323:15                  | 2323:48                 | 54              | 78                  |                 | 2               |                          | I             |
| 7857           | 327 | 82/11/23                  | 2359:45                  | 0001:38                 | 124             | 153                 | 2379            | 2               | 240, 15                  | I             |
| 6012           | 328 | 82/11/24                  | 0442:47                  | 0444:17                 | 205             | 155                 | 9290            | 3               | 189, 13                  | EW            |
| 6013           | 328 | 82/11/24                  | 0554:37                  | 0555:14                 | 98              | 67                  |                 | 2               |                          | EW            |
| 7858           | 328 | 82/11/24                  | 0707:47                  | 0707:54                 | 22              | 65                  |                 | 2               |                          | I             |
| 7859           | 328 | 82/11/24                  | 0916:52                  | 0917:35                 | 105             | 96                  |                 | 2               |                          | I             |
| 6014           | 328 | 82/11/24                  | 1939:18                  | 1939:38                 | 46              | 363                 | 2840            | 5               | 189, 14                  | EW            |
| 6015           | 328 | 82/11/24                  | 1942:33                  | 1943:33                 | 103             | 64                  |                 | 2               |                          | EW            |
| 7860           | 328 | 82/11/24                  | 2126:31                  | 2130:38                 | 377             | 176                 | 17256           | 2               | 240, 16                  | I             |
| 7861           | 328 | 82/11/24                  | 2331:13                  | 2331:19                 | 14              | 82                  |                 | 2               |                          |               |
| 7862           | 328 | 82/11/24                  | 2331:30                  | 2331:37                 | 20              | 83                  |                 | 2               |                          |               |
| 7863           | 329 | 82/11/25                  | 0020:21                  | 0020:54                 | 93              | 57                  |                 | 2               |                          | I             |
| 6737           | 329 | 82/11/25                  | 0355:52                  | 0355:58                 | 65              | 76                  |                 | 2               |                          | I             |
| 6738           | 329 | 82/11/25                  | 0413:28                  | 0414:23                 | 761             | 4200                | 1.16E+05        | 10              | 211, 11                  | M5, I         |
| 7866           | 329 | 82/11/25                  | 0508:16                  | 0508:27                 | 21              | 195                 | 580             | 3               | 241, 2                   | I             |
| 7867           | 329 | 82/11/25                  | 0726:09                  | 0726:30                 | 40              | 98                  |                 | 2               |                          | I             |
| 7868           | 329 | 82/11/25                  | 0729:41                  | 0730:01                 | 35              | 78                  |                 | 2               |                          | I             |
| 7869           | 329 | 82/11/25                  | 1221:13                  | 1221:30                 | 48              | 141                 | 17542           | 6               | 241, 3                   | I             |
| 7870           | 329 | 82/11/25                  | 1303:45                  | 1304:07                 | 51              | 266                 | 3362            | 4               | 241, 4                   | I             |
| 7871           | 329 | 82/11/25                  | 1747:36                  | 1747:53                 | 54              | 240                 | 2582            | 3               | 241, 5                   | I             |
| 6017           | 330 | 82/11/26                  | 0217:52                  | 0233:22                 | 18188           | 22747               | 4.86E+06        | 15              | 708, 11                  | M5, I, IN, DG |
| 6274           | 330 | 82/11/26                  | 0515:47                  | 0517:02                 | 196             | 441                 | 12364           | 3               | 195, 5                   | EW            |
| 7876           | 330 | 82/11/26                  | 0626:28                  | 0627:13                 | 65              | 64                  |                 | 2               |                          | I             |
| 7872           | 330 | 82/11/26                  | 1242:04                  | 1242:26                 | 99              | 59                  |                 | 2               |                          | I             |
| 7873           | 330 | 82/11/26                  | 1506:06                  | 1506:38                 | 184             | 1889                | 50250           | 9               | 241, 6                   | M5, I         |
| 7874           | 330 | 82/11/26                  | 1610:21                  | 1611:15                 | 167             | 9400                | 2.22E+06        | 7               | 241, 7                   | M5, I         |
| 7875           | 330 | 82/11/26                  | 2238:42                  | 2238:53                 | 46              | 144                 | 1128            | 3               | 241, 8                   | I             |
| 7879           | 332 | 82/11/28                  | 0257:46                  | 0258:15                 | 68              | 62                  |                 | 2               |                          | I             |
| 6018           | 332 | 82/11/28                  | 0557:16                  | 0557:30                 | 57              | 139                 | 2222            | 2               | 189, 16                  | AX            |
| 6019           | 332 | 82/11/28                  | 0749:09                  | 0749:17                 | 59              | 82                  |                 | 2               |                          |               |
| 7880           | 332 | 82/11/28                  | 0930:40                  | 0931:21                 | 67              | 68                  |                 | 2               |                          | I             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 6020           | 332 | 82/11/28                  | 2322:21                  | 2322:40                 | 31              | 67                  |                 | 2               |                          |          |
| 6021           | 333 | 82/11/29                  | 0305:14                  | 0305:46                 | 95              | 76                  |                 | 2               |                          |          |
| 6022           | 333 | 82/11/29                  | 0740:41                  | 0740:48                 | 23              | 62                  |                 | 2               |                          |          |
| 6023           | 333 | 82/11/29                  | 0927:35                  | 0929:09                 | 215             | 115                 | 3582            | 2               | 190, 1                   |          |
| 7885           | 333 | 82/11/29                  | 2136:57                  | 2137:41                 | 166             | 2875                | 47586           | 7               | 241, 12                  | M5, I    |
| 7886           | 333 | 82/11/29                  | 2322:31                  | 2323:28                 | 144             | 164                 | 5370            | 2               | 241, 14                  | I        |
| 6024           | 334 | 82/11/30                  | 0044:56                  | 0045:34                 | 65              | 228                 | 2581            | 3               | 190, 2                   |          |
| 6025           | 334 | 82/11/30                  | 0046:39                  | 0046:53                 | 89              | 132                 | 1869            | 2               | 190, 2                   |          |
| 6026           | 334 | 82/11/30                  | 0336:46                  | 0337:10                 | 45              | 81                  |                 | 2               |                          |          |
| 6027           | 334 | 82/11/30                  | 0411:22                  | 0411:39                 | 53              | 687                 | 6323            | 3               | 190, 3                   |          |
| 7887           | 334 | 82/11/30                  | 0735:11                  | 0738:25                 | 514             | 81                  | 2951            | 2               | 241, 15                  | I        |
| 6028           | 335 | 82/12/01                  | 0010:54                  | 0011:05                 | 37              | 189                 | 1351            | 3               | 190, 4                   |          |
| 7888           | 336 | 82/12/02                  | 0003:20                  | 0003:46                 | 86              | 230                 | 3431            | 3               | 241, 16                  | I        |
| 6029           | 336 | 82/12/02                  | 0259:36                  | 0259:49                 | 57              | 80                  |                 | 2               |                          |          |
| 6030           | 336 | 82/12/02                  | 1003:53                  | 1004:24                 | 100             | 68                  |                 | 2               |                          |          |
| 6031           | 336 | 82/12/02                  | 2108:57                  | 2111:46                 | 404             | 263                 | 34789           | 5               | 190, 5                   |          |
| 6033           | 336 | 82/12/02                  | 2240:12                  | 2241:32                 | 150             | 85                  |                 | 2               |                          | EW       |
| 7889           | 337 | 82/12/03                  | 0014:30                  | 0015:22                 | 119             | 61                  |                 | 2               |                          | I        |
| 7890           | 337 | 82/12/03                  | 0111:22                  | 0113:15                 | 991             | 327                 | 38080           | 3               | 242, 1                   | I        |
| 7891           | 337 | 82/12/03                  | 0302:58                  | 0303:15                 | 40              | 90                  |                 | 2               |                          | I        |
| 6032           | 337 | 82/12/03                  | 0637:28                  | 0638:00                 | 60              | 62                  |                 | 2               |                          |          |
| 6034           | 337 | 82/12/03                  | 1914:15                  | 1914:28                 | 33              | 159                 | 1037            | 3               | 190, 6                   |          |
| 6035           | 337 | 82/12/03                  | 2142:19                  | 2142:52                 | 98              | 76                  |                 | 2               |                          |          |
| 6036           | 338 | 82/12/04                  | 0912:17                  | 0913:17                 | 236             | 626                 | 33414           | 2               | 190, 7                   | SA       |
| 6037           | 338 | 82/12/04                  | 0925:45                  | 0926:28                 | 118             | 261                 | 3481            | 3               | 190, 7                   | DG       |
| 7895           | 338 | 82/12/04                  | 1559:05                  | 1559:29                 | 46              | 57                  |                 | 2               |                          | I        |
| 7896           | 338 | 82/12/04                  | 2027:02                  | 2027:59                 | 92              | 97                  |                 | 2               |                          | I        |
| 6038           | 339 | 82/12/05                  | 0047:35                  | 0048:42                 | 65              | 66                  |                 | 2               |                          |          |
| 6039           | 339 | 82/12/05                  | 0256:35                  | 0257:10                 | 98              | 78                  |                 | 2               |                          |          |
| 6040           | 339 | 82/12/05                  | 0918:39                  | 0918:57                 | 38              | 57                  |                 | 2               |                          |          |
| 7897           | 339 | 82/12/05                  | 1958:26                  | 1959:14                 | 121             | 182                 | 5626            | 2               | 242, 3                   | I        |
| 6041           | 339 | 82/12/05                  | 2109:53                  | 2110:30                 | 65              | 119                 | 2128            | 5               | 190, 8                   |          |
| 7898           | 339 | 82/12/05                  | 2245:02                  | 2245:50                 | 92              | 293                 | 9091            | 2               | 242, 4                   | I        |
| 7899           | 339 | 82/12/05                  | 2255:07                  | 2255:54                 | 68              | 69                  |                 | 2               |                          | I        |
| 6042           | 339 | 82/12/05                  | 2330:46                  | 2331:39                 | 82              | 80                  |                 | 4               |                          |          |
| 6043           | 340 | 82/12/06                  | 0020:29                  | 0021:15                 | 154             | 426                 | 19615           | 6               | 190, 9                   | AX       |
| 6044           | 340 | 82/12/06                  | 0029:18                  | 0030:34                 | 152             | 87                  |                 | 3               |                          |          |
| 6045           | 340 | 82/12/06                  | 0109:53                  | 0110:38                 | 68              | 69                  |                 | 3               |                          |          |
| 6046           | 340 | 82/12/06                  | 0207:14                  | 0207:45                 | 65              | 64                  |                 | 2               |                          |          |
| 7906           | 340 | 82/12/06                  | 1117:37                  | 1117:51                 | 55              | 94                  |                 | 2               |                          | I        |
| 7907           | 340 | 82/12/06                  | 1748:40                  | 1748:55                 | 26              | 69                  |                 | 2               |                          | I        |
| 7908           | 340 | 82/12/06                  | 1820:09                  | 1820:18                 | 24              | 81                  |                 | 2               |                          | I        |
| 7909           | 340 | 82/12/06                  | 1948:27                  | 1948:41                 | 26              | 63                  |                 | 2               |                          | I        |
| 7910           | 340 | 82/12/06                  | 1949:54                  | 1950:01                 | 50              | 64                  |                 | 2               |                          | I        |
| 7911           | 340 | 82/12/06                  | 2105:00                  | 2113:05                 | 826             | 1600                |                 | 3               | 242, 8                   | I ,DG,ND |
| 6047           | 340 | 82/12/06                  | 2136:34                  | 2136:56                 | 37              | 74                  |                 | 2               |                          |          |
| 6048           | 340 | 82/12/06                  | 2359:22                  | 0001:07                 | 206             | 240                 | 17695           | 5               | 190, 10                  | ND       |
| 7916           | 341 | 82/12/07                  | 0014:52                  | 0015:05                 | 85              | 71                  |                 | 2               |                          | I        |
| 7922           | 341 | 82/12/07                  | 0208:48                  | 0209:18                 | 148             | 171                 |                 | 2               | 242, 12                  | I ,ND    |
| 7923           | 341 | 82/12/07                  | 0218:55                  | 0221:05                 | 270             | 234                 |                 | 2               | 242, 13                  | I ,ND    |
| 7924           | 341 | 82/12/07                  | 0329:30                  | 0329:50                 | 52              | 76                  |                 | 2               |                          | I        |
| 6049           | 341 | 82/12/07                  | 0700:17                  | 0701:16                 | 91              | 76                  |                 | 2               |                          |          |
| 6050           | 341 | 82/12/07                  | 0702:35                  | 0703:46                 | 85              | 88                  |                 | 2               |                          |          |
| 6051           | 341 | 82/12/07                  | 1317:14                  | 1319:19                 | 261             | 197                 | 15341           | 2               | 190, 11                  |          |
| 7925           | 341 | 82/12/07                  | 1417:00                  | 1417:24                 | 50              | 99                  |                 | 2               |                          | I        |
| 6052           | 341 | 82/12/07                  | 1622:59                  | 1623:12                 | 43              | 61                  |                 | 2               |                          |          |
| 6053           | 341 | 82/12/07                  | 1742:08                  | 1742:42                 | 67              | 96                  |                 | 2               |                          |          |
| 6054           | 341 | 82/12/07                  | 1746:58                  | 1748:56                 | 202             | 332                 | 7085            | 5               | 190, 12                  |          |
| 6055           | 341 | 82/12/07                  | 1756:32                  | 1757:04                 | 57              | 76                  |                 | 2               |                          |          |
| 6056           | 341 | 82/12/07                  | 1806:24                  | 1810:11                 | 518             | 427                 | 45017           | 2               | 190, 14                  |          |
| 6057           | 341 | 82/12/07                  | 2031:48                  | 2031:53                 | 8               | 90                  |                 | 2               |                          |          |
| 6058           | 341 | 82/12/07                  | 2201:38                  | 2202:58                 | 97              | 63                  |                 | 2               |                          |          |
| 6059           | 341 | 82/12/07                  | 2252:13                  | 2252:51                 | 148             | 85                  |                 | 7               |                          | AX       |
| 6060           | 341 | 82/12/07                  | 2335:30                  | 2352:41                 | 3539            | 23654               | 1.80E+07        | 15              | 190, 13                  | M5,SN,EN |
| 6061           | 342 | 82/12/08                  | 0134:09                  | 0134:40                 | 51              | 67                  |                 | 2               |                          |          |
| 6062           | 342 | 82/12/08                  | 0156:01                  | 0156:12                 | 33              | 65                  |                 | 2               |                          |          |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS       |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------|
| 6063           | 342 | 82/12/08                  | 0159:58                  | 0200:49                 | 104             | 70                  |                 | 2               |                          |             |
| 6064           | 342 | 82/12/08                  | 0203:45                  | 0204:44                 | 65              | 69                  |                 | 2               |                          |             |
| 6065           | 342 | 82/12/08                  | 0207:17                  | 0207:32                 | 170             | 82                  |                 | 2               |                          |             |
| 6066           | 342 | 82/12/08                  | 0253:52                  | 0255:02                 | 200             | 110                 | 3126            | 2               | 190, 14                  |             |
| 6067           | 342 | 82/12/08                  | 0301:14                  | 0306:26                 | 769             | 312                 | 59282           | 2               | 190, 14                  |             |
| 6068           | 342 | 82/12/08                  | 0825:13                  | 0828:03                 | 207             | 114                 | 2082            | 2               | 190, 15                  |             |
| 6069           | 342 | 82/12/08                  | 0939:01                  | 0939:19                 | 49              | 90                  |                 | 2               |                          |             |
| 6070           | 342 | 82/12/08                  | 0950:41                  | 0950:56                 | 39              | 68                  |                 | 2               |                          |             |
| 6071           | 342 | 82/12/08                  | 0953:07                  | 0953:36                 | 60              | 86                  |                 | 2               |                          |             |
| 7928           | 342 | 82/12/08                  | 1110:11                  | 1113:03                 | 1320            | 290                 | 69214           | 2               | 242, 15                  | I,SA        |
| 6072           | 342 | 82/12/08                  | 1348:20                  | 1443:52                 | 6734            | 2454                | 1.59E+06        | 15              | 199, 1                   | M5,SN,IN,IS |
| 6073           | 342 | 82/12/08                  | 1609:23                  | 1609:54                 | 255             | 106                 | 3131            | 2               | 190, 16                  |             |
| 7929           | 342 | 82/12/08                  | 1704:07                  | 1704:18                 | 172             | 168                 | 1883            | 2               | 242, 16                  | I           |
| 7930           | 342 | 82/12/08                  | 2007:42                  | 2008:16                 | 114             | 63                  |                 | 2               |                          | I           |
| 7931           | 342 | 82/12/08                  | 2010:42                  | 2011:14                 | 60              | 72                  |                 | 2               |                          | I           |
| 6074           | 342 | 82/12/08                  | 2336:03                  | 2337:04                 | 79              | 72                  |                 | 2               |                          |             |
| 6075           | 342 | 82/12/08                  | 2342:37                  | 2343:05                 | 55              | 75                  |                 | 2               |                          |             |
| 7935           | 343 | 82/12/09                  | 0253:32                  | 0254:25                 | 95              | 76                  |                 | 2               |                          | I           |
| 7936           | 343 | 82/12/09                  | 0255:59                  | 0257:19                 | 163             | 85                  |                 | 2               |                          | I           |
| 7937           | 343 | 82/12/09                  | 0418:50                  | 0419:41                 | 83              | 65                  |                 | 2               |                          | I           |
| 7938           | 343 | 82/12/09                  | 0423:58                  | 0424:42                 | 117             | 206                 | 5262            | 2               | 243, 2                   | I           |
| 7939           | 343 | 82/12/09                  | 0602:09                  | 0602:20                 | 27              | 75                  |                 | 2               |                          | I           |
| 7943           | 343 | 82/12/09                  | 0935:21                  | 0938:27                 | 569             | 269                 | 38178           | 2               | 243, 4                   | I           |
| 7944           | 343 | 82/12/09                  | 1051:23                  | 1051:45                 | 51              | 75                  |                 | 2               |                          | I           |
| 7945           | 343 | 82/12/09                  | 1505:18                  | 1505:46                 | 48              | 58                  |                 | 2               |                          | I           |
| 6076           | 343 | 82/12/09                  | 1600:44                  | 1601:20                 | 196             | 205                 | 6443            | 2               | 191, 1                   | EW          |
| 6077           | 343 | 82/12/09                  | 1733:30                  | 1737:07                 | 319             | 259                 | 19941           | 3               | 191, 2                   | EN,EW       |
| 6078           | 343 | 82/12/09                  | 1848:46                  | 1849:04                 | 42              | 71                  |                 | 2               |                          |             |
| 6079           | 343 | 82/12/09                  | 1859:39                  | 1902:43                 | 376             | 469                 | 26528           | 3               | 191, 3                   |             |
| 6080           | 343 | 82/12/09                  | 2124:26                  | 2125:04                 | 46              | 69                  |                 | 2               |                          |             |
| 6081           | 343 | 82/12/09                  | 2142:33                  | 2145:42                 | 2134            | 2936                | 1.01E+06        | 5               | 191, 4                   | M5          |
| 6082           | 344 | 82/12/10                  | 0040:29                  | 0040:56                 | 153             | 76                  |                 | 2               |                          |             |
| 6083           | 344 | 82/12/10                  | 0043:32                  | 0044:17                 | 87              | 97                  |                 | 2               |                          |             |
| 6084           | 344 | 82/12/10                  | 0050:00                  | 0051:23                 | 226             | 202                 | 16925           | 2               | 191, 5                   |             |
| 6085           | 344 | 82/12/10                  | 0115:26                  | 0115:57                 | 736             | 323                 | 32114           | 2               | 191, 5                   | M5          |
| 6086           | 344 | 82/12/10                  | 0131:16                  | 0131:29                 | 24              | 68                  |                 | 2               |                          |             |
| 6087           | 344 | 82/12/10                  | 0236:12                  | 0240:55                 | 1798            | 3311                | 5.66E+05        | 5               | 191, 6                   | M5          |
| 7946           | 344 | 82/12/10                  | 0356:03                  | 0425:04                 | 2771            | 1187                | 8.71E+05        | 3               | 243, 5                   | M5,I,EN,SA  |
| 6088           | 344 | 82/12/10                  | 1316:20                  | 1320:49                 | 441             | 211                 | 28070           | 2               | 191, 7                   | ES,EW       |
| 6089           | 344 | 82/12/10                  | 1349:32                  | 1350:49                 | 145             | 98                  |                 | 2               |                          | EW          |
| 6090           | 344 | 82/12/10                  | 1525:35                  | 1526:36                 | 71              | 121                 | 1012            | 2               | 191, 8                   | SG,EG,DG    |
| 6091           | 344 | 82/12/10                  | 1532:55                  | 1535:02                 | 196             | 64                  |                 | 2               |                          |             |
| 6092           | 344 | 82/12/10                  | 1815:40                  | 1816:49                 | 445             | 480                 | 51354           | 3               | 191, 9                   |             |
| 6093           | 344 | 82/12/10                  | 1929:35                  | 1931:14                 | 196             | 72                  |                 | 2               |                          |             |
| 6094           | 344 | 82/12/10                  | 2113:31                  | 2115:53                 | 715             | 83                  |                 | 2               |                          |             |
| 6095           | 344 | 82/12/10                  | 2253:11                  | 2253:20                 | 22              | 116                 | 601             | 2               | 191, 10                  |             |
| 6096           | 345 | 82/12/11                  | 0020:39                  | 0020:57                 | 31              | 74                  |                 | 2               |                          |             |
| 6097           | 345 | 82/12/11                  | 0022:38                  | 0023:23                 | 81              | 68                  |                 | 2               |                          |             |
| 6098           | 345 | 82/12/11                  | 0030:31                  | 0031:21                 | 482             | 126                 | 5393            | 2               | 191, 11                  |             |
| 6099           | 345 | 82/12/11                  | 0048:48                  | 0049:23                 | 69              | 196                 | 1602            | 3               | 191, 12                  |             |
| 6100           | 345 | 82/12/11                  | 0113:51                  | 0114:21                 | 40              | 73                  |                 | 2               |                          | EN          |
| 6101           | 345 | 82/12/11                  | 0219:58                  | 0226:04                 | 662             | 100                 | 6519            | 2               | 191, 13                  |             |
| 6102           | 345 | 82/12/11                  | 0235:51                  | 0248:19                 | 931             | 174                 | 9985            | 4               | 191, 13                  |             |
| 7947           | 345 | 82/12/11                  | 0344:49                  | 0345:49                 | 116             | 75                  |                 | 2               |                          | I           |
| 7948           | 345 | 82/12/11                  | 0353:36                  | 0354:43                 | 99              | 66                  |                 | 2               |                          | I           |
| 7949           | 345 | 82/12/11                  | 0356:23                  | 0357:14                 | 86              | 72                  |                 | 2               |                          | I           |
| 7950           | 345 | 82/12/11                  | 0402:24                  | 0402:35                 | 75              | 62                  |                 | 2               |                          | I           |
| 7951           | 345 | 82/12/11                  | 0415:36                  | 0416:50                 | 642             | 80                  | 10343           | 2               | 243, 6                   | I,EN        |
| 6103           | 345 | 82/12/11                  | 0543:48                  | 0544:29                 | 107             | 518                 | 5931            | 3               | 191, 14                  |             |
| 6104           | 345 | 82/12/11                  | 1444:24                  | 1445:44                 | 266             | 179                 | 6023            | 2               | 191, 15                  |             |
| 7953           | 345 | 82/12/11                  | 1616:14                  | 1616:25                 | 74              | 69                  |                 | 2               |                          | I           |
| 7954           | 345 | 82/12/11                  | 1658:31                  | 1658:47                 | 35              | 54                  |                 | 2               |                          | I           |
| 7955           | 345 | 82/12/11                  | 1757:04                  | 1757:30                 | 44              | 60                  |                 | 2               |                          | I           |
| 7956           | 345 | 82/12/11                  | 1758:16                  | 1758:30                 | 45              | 64                  |                 | 2               |                          | I           |
| 6105           | 345 | 82/12/11                  | 1824:29                  | 1826:35                 | 177             | 92                  |                 | 2               |                          |             |
| 7957           | 345 | 82/12/11                  | 1942:27                  | 1942:54                 | 60              | 72                  |                 | 2               |                          | I           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS       |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------|
| 6106           | 345 | 82/12/11                  | 1956:29                  | 1956:47                 | 76              | 79                  |                 | 2               |                          | ND          |
| 6107           | 345 | 82/12/11                  | 2101:57                  | 2102:48                 | 89              | 75                  |                 | 2               |                          | ND          |
| 6108           | 345 | 82/12/11                  | 2131:28                  | 2131:45                 | 143             | 86                  |                 | 6               |                          | AX,ND       |
| 6109           | 345 | 82/12/11                  | 2305:53                  | 2306:11                 | 33              | 71                  |                 | 2               |                          |             |
| 6110           | 345 | 82/12/11                  | 2314:14                  | 2315:05                 | 180             | 96                  |                 | 2               |                          |             |
| 6111           | 346 | 82/12/12                  | 1546:42                  | 1546:54                 | 27              | 69                  |                 | 2               |                          |             |
| 6112           | 346 | 82/12/12                  | 1607:36                  | 1607:54                 | 29              | 68                  |                 | 2               |                          |             |
| 6113           | 346 | 82/12/12                  | 1800:38                  | 1800:54                 | 51              | 58                  |                 | 2               |                          |             |
| 6114           | 346 | 82/12/12                  | 2343:11                  | 2344:14                 | 176             | 84                  |                 | 3               |                          | AX          |
| 6115           | 347 | 82/12/13                  | 0139:26                  | 0139:37                 | 68              | 83                  |                 | 2               |                          | DG          |
| 6116           | 347 | 82/12/13                  | 0320:52                  | 0325:43                 | 1602            | 12464               | 1.64E+06        | 15              | 191, 16                  | M5          |
| 6117           | 347 | 82/12/13                  | 0657:20                  | 0657:35                 | 40              | 57                  |                 | 2               |                          |             |
| 6118           | 347 | 82/12/13                  | 0802:43                  | 0807:08                 | 823             | 2807                | 3.49E+05        | 10              | 191, 17                  | M5,FS       |
| 6119           | 347 | 82/12/13                  | 1134:36                  | 1134:56                 | 30              | 81                  |                 | 2               |                          |             |
| 6120           | 347 | 82/12/13                  | 1743:57                  | 1744:19                 | 37              | 87                  |                 | 2               |                          |             |
| 7958           | 347 | 82/12/13                  | 1856:23                  | 1857:15                 | 91              | 96                  |                 | 2               |                          | I           |
| 6121           | 348 | 82/12/14                  | 0000:17                  | 0000:38                 | 94              | 88                  |                 | 2               |                          | EW          |
| 6122           | 348 | 82/12/14                  | 0735:45                  | 0739:41                 | 372             | 182                 | 6787            | 4               | 192, 1                   | DG,EW       |
| 6123           | 348 | 82/12/14                  | 1347:25                  | 1347:48                 | 34              | 87                  |                 | 2               |                          | EW          |
| 7959           | 348 | 82/12/14                  | 2012:21                  | 2019:45                 | 1464            | 90                  | 21867           | 2               | 243, 8                   | I           |
| 7964           | 349 | 82/12/15                  | 0059:53                  | 0100:28                 | 87              | 113                 | 1318            | 2               | 243, 13                  | I           |
| 7961           | 349 | 82/12/15                  | 1055:08                  | 1055:25                 | 41              | 250                 | 1741            | 2               | 243, 10                  | I           |
| 7962           | 349 | 82/12/15                  | 1319:36                  | 1320:04                 | 88              | 96                  |                 | 2               |                          | I           |
| 6124           | 349 | 82/12/15                  | 1626:19                  | 1632:40                 | 1465            | 81391               | 1.32E+07        | 13              | 199, 2                   |             |
| 6125           | 349 | 82/12/15                  | 1702:43                  | 1704:48                 | 518             | 124                 | 7241            | 2               | 199, 2                   |             |
| 6126           | 349 | 82/12/15                  | 2143:50                  | 2151:31                 | 1608            | 5165                | 8.98E+05        | 8               | 192, 2                   |             |
| 7963           | 349 | 82/12/15                  | 2251:15                  | 2251:24                 | 24              | 185                 | 1102            | 2               | 243, 12                  | I           |
| 7965           | 350 | 82/12/16                  | 1009:22                  | 1009:39                 | 487             | 163                 | 21015           | 2               | 243, 14                  | I,SA        |
| 6127           | 350 | 82/12/16                  | 1220:21                  | 1220:59                 | 71              | 81                  |                 | 2               |                          |             |
| 6128           | 350 | 82/12/16                  | 1451:59                  | 1502:12                 | 2521            | 8678                | 3.71E+06        | 10              | 192, 3                   | M5,DG,FS    |
| 6129           | 350 | 82/12/16                  | 1616:11                  | 1621:13                 | 463             | 125                 | 14435           | 3               | 192, 4                   | AX          |
| 6130           | 350 | 82/12/16                  | 1632:10                  | 1633:51                 | 469             | 69                  | 3067            | 2               | 192, 4                   |             |
| 7966           | 350 | 82/12/16                  | 1646:25                  | 1646:45                 | 62              | 78                  |                 | 2               |                          | I           |
| 7967           | 350 | 82/12/16                  | 1648:05                  | 1648:48                 | 95              | 69                  |                 | 2               |                          | I           |
| 7968           | 350 | 82/12/16                  | 1651:55                  | 1652:54                 | 149             | 113                 | 2708            | 2               | 243, 15                  | I           |
| 6131           | 350 | 82/12/16                  | 1923:49                  | 1928:16                 | 822             | 269                 | 26051           | 2               | 192, 5                   |             |
| 6132           | 350 | 82/12/16                  | 2309:47                  | 2310:19                 | 139             | 155                 | 3434            | 2               | 192, 6                   |             |
| 6133           | 350 | 82/12/16                  | 2314:02                  | 2314:16                 | 41              | 69                  |                 | 2               |                          |             |
| 6134           | 350 | 82/12/16                  | 2316:01                  | 2316:19                 | 48              | 76                  |                 | 2               |                          |             |
| 6135           | 351 | 82/12/17                  | 0002:59                  | 0003:18                 | 54              | 448                 | 3892            | 3               | 192, 7                   | FS          |
| 6136           | 351 | 82/12/17                  | 0007:39                  | 0007:54                 | 45              | 103                 | 762             | 2               | 192, 7                   |             |
| 6137           | 351 | 82/12/17                  | 0144:24                  | 0145:55                 | 1099            | 3596                | 3.46E+05        | 9               | 192, 8                   | M5,FS       |
| 6138           | 351 | 82/12/17                  | 0219:57                  | 0221:32                 | 538             | 190                 | 13240           | 2               | 192, 8                   |             |
| 6139           | 351 | 82/12/17                  | 0519:06                  | 0519:39                 | 144             | 430                 | 14304           | 4               | 192, 9                   |             |
| 6140           | 351 | 82/12/17                  | 0850:14                  | 0850:20                 | 25              | 83                  |                 | 2               |                          |             |
| 6141           | 351 | 82/12/17                  | 1000:26                  | 1002:30                 | 717             | 907                 | 69234           | 3               | 192, 10                  |             |
| 6142           | 351 | 82/12/17                  | 1202:25                  | 1202:34                 | 23              | 101                 | 575             | 3               |                          |             |
| 6143           | 351 | 82/12/17                  | 1441:30                  | 1441:37                 | 23              | 110                 | 429             | 2               | 192, 11                  |             |
| 6144           | 351 | 82/12/17                  | 1643:25                  | 1645:13                 | 167             | 70                  |                 | 2               |                          |             |
| 6145           | 351 | 82/12/17                  | 1818:49                  | 1819:31                 | 86              | 62                  |                 | 2               |                          |             |
| 6146           | 351 | 82/12/17                  | 1854:40                  | 1857:10                 | 4059            | 108043              | 1.51E+07        | 15              | 199, 3                   | M5,SN,EN,DG |
| 6147           | 351 | 82/12/17                  | 2031:32                  | 2032:00                 | 231             | 149                 | 7663            | 2               | 192, 12                  |             |
| 6148           | 351 | 82/12/17                  | 2103:52                  | 2106:30                 | 1298            | 408                 | 1.33E+05        | 5               | 192, 13                  |             |
| 6149           | 351 | 82/12/17                  | 2244:01                  | 2246:40                 | 254             | 127                 | 48173           | 2               | 192, 14                  | EG          |
| 6150           | 352 | 82/12/18                  | 0303:07                  | 0303:28                 | 65              | 133                 | 1006            | 2               | 192, 15                  |             |
| 6151           | 352 | 82/12/18                  | 0304:21                  | 0304:26                 | 21              | 104                 | 370             | 2               | 192, 15                  |             |
| 7969           | 352 | 82/12/18                  | 0350:13                  | 0350:54                 | 327             | 1882                | 52007           | 6               | 243, 16                  | I,ND        |
| 6152           | 352 | 82/12/18                  | 0817:31                  | 0822:02                 | 1241            | 19095               | 1.56E+06        | 10              | 192, 16                  | M5,ND       |
| 6153           | 352 | 82/12/18                  | 1752:30                  | 1752:41                 | 36              | 79                  |                 | 2               |                          |             |
| 6154           | 352 | 82/12/18                  | 1922:08                  | 1922:19                 | 28              | 100                 | 427             | 2               |                          |             |
| 6155           | 352 | 82/12/18                  | 2017:01                  | 2017:22                 | 77              | 73                  |                 | 2               |                          |             |
| 6156           | 352 | 82/12/18                  | 2049:02                  | 2051:04                 | 160             | 71                  |                 | 4               |                          |             |
| 6157           | 352 | 82/12/18                  | 2248:02                  | 2248:58                 | 93              | 168                 | 3112            | 2               | 193, 1                   | ES          |
| 6158           | 352 | 82/12/18                  | 2328:45                  | 2329:30                 | 76              | 72                  |                 | 2               |                          |             |
| 6159           | 352 | 82/12/18                  | 2350:30                  | 2350:50                 | 72              | 110                 | 1324            | 2               | 193, 2                   |             |
| 6160           | 353 | 82/12/19                  | 0020:44                  | 0021:01                 | 42              | 64                  |                 | 2               |                          |             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#.<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 6161           | 353 | 82/12/19                  | 0133:23                  | 0136:09                 | 532             | 413                 | 60072           | 4               | 193, 3                   |       |
| 6162           | 353 | 82/12/19                  | 0142:51                  | 0143:32                 | 99              | 228                 | 5071            | 4               | 193, 3                   |       |
| 6163           | 353 | 82/12/19                  | 0622:00                  | 0622:12                 | 38              | 87                  |                 | 2               |                          |       |
| 6164           | 353 | 82/12/19                  | 0948:17                  | 0949:00                 | 228             | 380                 | 6660            | 3               | 193, 4                   | DG    |
| 6165           | 353 | 82/12/19                  | 1128:13                  | 1128:28                 | 70              | 117                 | 640             | 2               | 193, 5                   |       |
| 6166           | 353 | 82/12/19                  | 1130:47                  | 1130:54                 | 23              | 70                  |                 | 2               |                          |       |
| 6167           | 353 | 82/12/19                  | 1207:39                  | 1208:00                 | 48              | 76                  |                 | 2               |                          |       |
| 6168           | 353 | 82/12/19                  | 1347:45                  | 1348:35                 | 135             | 155                 | 4606            | 2               | 193, 6                   | ND    |
| 6169           | 353 | 82/12/19                  | 1432:56                  | 1433:11                 | 65              | 64                  |                 | 2               |                          |       |
| 6170           | 353 | 82/12/19                  | 1537:57                  | 1540:16                 | 170             | 112                 | 1942            | 2               | 193, 7                   |       |
| 6171           | 353 | 82/12/19                  | 1542:51                  | 1543:52                 | 151             | 76                  |                 | 2               |                          |       |
| 6172           | 353 | 82/12/19                  | 1549:28                  | 1648:45                 | 6668            | 304                 | 1.36E+05        | 2               | 199, 4                   | IN    |
| 6173           | 353 | 82/12/19                  | 1918:16                  | 1918:31                 | 159             | 63                  |                 | 2               |                          |       |
| 6174           | 353 | 82/12/19                  | 2018:56                  | 2019:10                 | 108             | 534                 | 13739           | 5               | 193, 8                   | FS    |
| 6175           | 353 | 82/12/19                  | 2038:18                  | 2038:55                 | 122             | 73                  |                 | 2               |                          |       |
| 6176           | 354 | 82/12/20                  | 0102:02                  | 0102:15                 | 20              | 99                  |                 | 2               |                          |       |
| 7970           | 354 | 82/12/20                  | 0124:30                  | 0126:02                 | 184             | 112                 | 3587            | 2               | 244, 1                   | I     |
| 6177           | 354 | 82/12/20                  | 0550:22                  | 0550:35                 | 32              | 75                  |                 | 2               |                          |       |
| 6178           | 354 | 82/12/20                  | 0617:37                  | 0619:04                 | 130             | 76                  |                 | 2               |                          |       |
| 6179           | 354 | 82/12/20                  | 0723:58                  | 0724:10                 | 60              | 116                 | 1044            | 2               | 193, 9                   |       |
| 7971           | 354 | 82/12/20                  | 0859:42                  | 0900:13                 | 189             | 178                 | 4573            | 3               | 244, 2                   | I     |
| 6180           | 354 | 82/12/20                  | 0925:21                  | 0925:27                 | 18              | 65                  |                 | 2               |                          |       |
| 6181           | 354 | 82/12/20                  | 1246:58                  | 1247:35                 | 195             | 72                  |                 | 2               |                          |       |
| 6182           | 354 | 82/12/20                  | 1634:11                  | 1634:41                 | 173             | 70                  |                 | 2               |                          |       |
| 6183           | 354 | 82/12/20                  | 1703:01                  | 1706:42                 | 332             | 169                 | 15647           | 2               | 193, 10                  |       |
| 6184           | 355 | 82/12/21                  | 0211:35                  | 0212:51                 | 415             | 1193                | 87310           | 7               | 193, 11                  |       |
| 6185           | 355 | 82/12/21                  | 0421:49                  | 0423:42                 | 139             | 77                  |                 | 2               |                          |       |
| 6186           | 355 | 82/12/21                  | 0432:54                  | 0434:20                 | 173             | 88                  |                 | 2               |                          |       |
| 6187           | 355 | 82/12/21                  | 0544:47                  | 0545:49                 | 125             | 99                  |                 | 2               |                          |       |
| 6188           | 355 | 82/12/21                  | 0559:17                  | 0559:46                 | 57              | 103                 | 829             | 2               | 193, 12                  |       |
| 6189           | 355 | 82/12/21                  | 0605:36                  | 0605:55                 | 45              | 64                  |                 | 2               |                          |       |
| 6190           | 355 | 82/12/21                  | 0612:27                  | 0613:17                 | 79              | 115                 | 1920            | 2               | 193, 12                  |       |
| 6191           | 355 | 82/12/21                  | 1445:02                  | 1445:11                 | 67              | 67                  |                 | 2               |                          |       |
| 6192           | 355 | 82/12/21                  | 1748:48                  | 1749:08                 | 28              | 73                  |                 | 2               |                          |       |
| 6193           | 355 | 82/12/21                  | 1926:43                  | 1927:42                 | 113             | 96                  |                 | 2               |                          |       |
| 6194           | 355 | 82/12/21                  | 2247:04                  | 2247:55                 | 80              | 82                  |                 | 2               |                          |       |
| 6195           | 355 | 82/12/21                  | 2308:04                  | 2309:07                 | 124             | 155                 | 11088           | 5               | 193, 13                  |       |
| 7990           | 355 | 82/12/21                  | 2326:16                  | 2327:43                 | 87              | 68                  |                 | 2               |                          | I ,ES |
| 6196           | 356 | 82/12/22                  | 0207:07                  | 0208:33                 | 144             | 100                 | 3181            | 2               |                          |       |
| 6197           | 356 | 82/12/22                  | 0211:02                  | 0211:29                 | 50              | 67                  |                 | 2               |                          |       |
| 6198           | 356 | 82/12/22                  | 0218:41                  | 0219:05                 | 81              | 195                 | 3440            | 2               | 193, 14                  |       |
| 6199           | 356 | 82/12/22                  | 0643:49                  | 0644:04                 | 53              | 117                 | 1148            | 2               | 193, 15                  |       |
| 6200           | 356 | 82/12/22                  | 1616:41                  | 1618:31                 | 200             | 83                  |                 | 2               |                          | DG,ND |
| 6201           | 356 | 82/12/22                  | 1757:36                  | 1758:06                 | 100             | 63                  |                 | 2               |                          |       |
| 6202           | 356 | 82/12/22                  | 2241:19                  | 2241:58                 | 124             | 64                  |                 | 2               |                          |       |
| 7972           | 357 | 82/12/23                  | 0508:14                  | 0508:36                 | 57              | 65                  |                 | 2               |                          | I     |
| 6203           | 357 | 82/12/23                  | 1019:19                  | 1019:52                 | 59              | 66                  |                 | 2               |                          |       |
| 7973           | 357 | 82/12/23                  | 1324:09                  | 1324:23                 | 38              | 71                  |                 | 2               |                          | I     |
| 7974           | 357 | 82/12/23                  | 1326:22                  | 1326:32                 | 55              | 85                  |                 | 2               |                          | I     |
| 7976           | 357 | 82/12/23                  | 2158:23                  | 2158:48                 | 61              | 60                  |                 | 2               |                          | I     |
| 6204           | 358 | 82/12/24                  | 0124:23                  | 0124:47                 | 78              | 69                  |                 | 2               |                          |       |
| 7977           | 358 | 82/12/24                  | 0325:43                  | 0327:08                 | 112             | 85                  |                 | 2               |                          | I     |
| 6205           | 358 | 82/12/24                  | 1305:45                  | 1306:07                 | 59              | 72                  |                 | 2               |                          | EW    |
| 6206           | 358 | 82/12/24                  | 1310:23                  | 1310:33                 | 19              | 82                  |                 | 2               |                          | EW    |
| 6207           | 358 | 82/12/24                  | 1312:43                  | 1313:05                 | 125             | 61                  |                 | 2               |                          | EW    |
| 6208           | 358 | 82/12/24                  | 2153:31                  | 2153:45                 | 58              | 88                  |                 | 2               |                          |       |
| 6209           | 359 | 82/12/25                  | 1250:42                  | 1251:29                 | 57              | 123                 | 1561            | 2               | 193, 16                  |       |
| 6210           | 359 | 82/12/25                  | 1658:27                  | 1658:47                 | 80              | 89                  |                 | 2               |                          |       |
| 6211           | 359 | 82/12/25                  | 1707:28                  | 1707:47                 | 50              | 62                  |                 | 2               |                          |       |
| 6212           | 359 | 82/12/25                  | 2132:24                  | 2132:39                 | 34              | 76                  |                 | 2               |                          |       |
| 6213           | 360 | 82/12/26                  | 0102:21                  | 0102:31                 | 143             | 65                  |                 | 2               |                          |       |
| 6214           | 360 | 82/12/26                  | 1039:42                  | 1040:06                 | 100             | 341                 | 3385            | 4               | 194, 1                   | FS    |
| 6215           | 360 | 82/12/26                  | 1143:29                  | 1143:56                 | 33              | 90                  |                 | 2               |                          |       |
| 6216           | 360 | 82/12/26                  | 1159:19                  | 1159:39                 | 67              | 80                  |                 | 2               |                          |       |
| 6217           | 360 | 82/12/26                  | 1506:08                  | 1510:03                 | 485             | 460                 | 29027           | 3               | 194, 2                   |       |
| 6218           | 361 | 82/12/27                  | 0019:05                  | 0019:22                 | 48              | 84                  |                 | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 6219           | 361 | 82/12/27                  | 0159:30                  | 0159:59                 | 41              | 98                  |                 | 2               |                          |          |
| 6220           | 361 | 82/12/27                  | 0523:44                  | 0524:21                 | 376             | 375                 | 28212           | 5               | 194, 3                   | EW       |
| 6221           | 361 | 82/12/27                  | 0533:47                  | 0534:15                 | 38              | 62                  |                 | 2               |                          |          |
| 6222           | 361 | 82/12/27                  | 0814:59                  | 0815:21                 | 61              | 83                  |                 | 2               |                          |          |
| 7984           | 361 | 82/12/27                  | 1129:27                  | 1129:51                 | 115             | 99                  |                 | 2               |                          | I        |
| 7985           | 361 | 82/12/27                  | 1134:09                  | 1134:54                 | 130             | 95                  |                 | 2               |                          | I        |
| 7986           | 361 | 82/12/27                  | 1136:45                  | 1137:28                 | 83              | 228                 | 4434            | 3               | 244, 5                   | I        |
| 7987           | 361 | 82/12/27                  | 1427:11                  | 1427:58                 | 57              | 84                  |                 | 2               |                          | I        |
| 6223           | 362 | 82/12/28                  | 0306:03                  | 0306:46                 | 87              | 62                  |                 | 2               |                          |          |
| 6224           | 362 | 82/12/28                  | 0834:13                  | 0834:45                 | 55              | 63                  |                 | 2               |                          |          |
| 6225           | 362 | 82/12/28                  | 0846:23                  | 0848:28                 | 164             | 60                  |                 | 2               |                          |          |
| 6226           | 362 | 82/12/28                  | 0936:45                  | 0937:33                 | 82              | 59                  |                 | 2               |                          |          |
| 6227           | 362 | 82/12/28                  | 1556:52                  | 1557:58                 | 178             | 2287                | 1.33E+05        | 5               | 194, 4                   | M5       |
| 6228           | 363 | 82/12/29                  | 0136:29                  | 0137:11                 | 252             | 183                 | 7452            | 2               | 194, 5                   |          |
| 6741           | 363 | 82/12/29                  | 0643:00                  | 0645:12                 | 757             | 38120               | 7.49E+06        | 15              | 211, 13                  | I        |
| 6229           | 363 | 82/12/29                  | 0950:59                  | 0951:12                 | 45              | 61                  |                 | 2               |                          |          |
| 6230           | 363 | 82/12/29                  | 1622:15                  | 1622:42                 | 58              | 113                 | 1999            | 2               | 194, 6                   | EW       |
| 6231           | 363 | 82/12/29                  | 1727:16                  | 1728:31                 | 123             | 97                  |                 | 2               |                          | EW       |
| 6232           | 363 | 82/12/29                  | 2337:16                  | 2337:58                 | 72              | 128                 | 693             | 2               | 194, 7                   | EW       |
| 6233           | 363 | 82/12/29                  | 2348:18                  | 2348:59                 | 138             | 86                  | 7462            | 2               |                          | EW       |
| 6234           | 364 | 82/12/30                  | 0141:15                  | 0142:49                 | 415             | 6891                | 1.47E+05        | 11              | 194, 8                   | M5,ES,FS |
| 6235           | 364 | 82/12/30                  | 0411:23                  | 0411:36                 | 46              | 77                  |                 | 2               |                          |          |
| 6236           | 364 | 82/12/30                  | 0603:29                  | 0604:02                 | 56              | 61                  |                 | 2               |                          |          |
| 6237           | 364 | 82/12/30                  | 1519:20                  | 1519:37                 | 33              | 70                  |                 | 2               |                          |          |
| 6238           | 364 | 82/12/30                  | 1842:51                  | 1845:25                 | 234             | 423                 | 18821           | 3               | 194, 9                   | SA,EW    |
| 6239           | 365 | 82/12/31                  | 0246:05                  | 0246:15                 | 23              | 70                  |                 | 2               |                          | EW       |
| 6240           | 365 | 82/12/31                  | 1408:48                  | 1409:19                 | 94              | 64                  |                 | 3               |                          |          |
| 7988           | 365 | 82/12/31                  | 1958:17                  | 1959:22                 | 101             | 176                 | 3298            | 3               | 244, 6                   | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS              |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------------------|
| 7989           | 1   | 83/01/01                  | 0041:41                  | 0042:36                 | 240             | 698                 | 48820           | 4               | 244, 7                   | I                  |
| 7991           | 1   | 83/01/01                  | 2256:54                  | 2258:09                 | 186             | 123                 | 3817            | 2               | 244, 8                   | I                  |
| 6241           | 2   | 83/01/02                  | 0155:45                  | 0158:29                 | 399             | 645                 | 55266           | 2               | 194, 10                  |                    |
| 7992           | 2   | 83/01/02                  | 0202:43                  | 0202:43                 | 42              | 79                  |                 | 2               |                          | I                  |
| 6242           | 5   | 83/01/05                  | 1321:37                  | 1322:45                 | 162             | 71                  |                 | 2               |                          |                    |
| * 6252         | 7   | 83/01/07                  | 0204:56                  | 0206:03                 | 201             | 688                 | 16380           | 7               | 194, 15                  | EW                 |
| * 6251         | 7   | 83/01/07                  | 0516:02                  | 0516:19                 | 29              | 200                 | 1564            | 5               |                          | ND                 |
| 6253           | 9   | 83/01/09                  | 1835:43                  | 1836:05                 | 45              | 451                 | 4444            | 4               | 194, 16                  |                    |
| 6254           | 10  | 83/01/10                  | 0549:00                  | 0549:23                 | 54              | 57                  |                 | 2               |                          |                    |
| 6255           | 10  | 83/01/10                  | 0551:41                  | 0557:48                 | 417             | 105                 | 8503            | 4               | 195, 1                   |                    |
| 6256           | 10  | 83/01/10                  | 0733:29                  | 0734:33                 | 388             | 217                 | 12916           | 5               | 195, 2                   |                    |
| 6257           | 10  | 83/01/10                  | 0913:08                  | 0913:51                 | 183             | 64                  |                 | 2               |                          |                    |
| 7995           | 10  | 83/01/10                  | 1403:55                  | 1404:28                 | 66              | 152                 | 2632            | 2               | 244, 9                   | I                  |
| 6258           | 12  | 83/01/12                  | 0828:24                  | 0828:40                 | 61              | 81                  |                 | 9               |                          | AX                 |
| 6259           | 12  | 83/01/12                  | 1910:03                  | 1910:43                 | 80              | 77                  |                 | 2               |                          |                    |
| 7996           | 12  | 83/01/12                  | 2356:19                  | 2357:06                 | 86              | 287                 | 4310            | 3               | 244, 10                  | I                  |
| 6260           | 15  | 83/01/15                  | 0054:14                  | 0054:30                 | 90              | 86                  |                 | 2               |                          |                    |
| 6261           | 23  | 83/01/23                  | 0038:46                  | 0039:26                 | 114             | 59                  |                 | 2               |                          |                    |
| 6262           | 24  | 83/01/24                  | 0019:55                  | 0020:02                 | 59              | 91                  |                 | 3               |                          | EW                 |
| 8000           | 27  | 83/01/27                  | 0330:21                  | 0334:51                 | 953             | 292                 | 35906           | 2               | 244, 11                  | I                  |
| 6263           | 28  | 83/01/28                  | 1434:10                  | 1434:34                 | 41              | 76                  |                 | 2               |                          |                    |
| 6264           | 29  | 83/01/29                  | 1646:23                  | 1646:59                 | 64              | 53                  |                 | 2               |                          |                    |
| 6265           | 31  | 83/01/31                  | 0105:40                  | 0105:59                 | 35              | 73                  |                 | 2               |                          |                    |
| 6266           | 31  | 83/01/31                  | 1142:26                  | 1143:44                 | 92              | 61                  |                 | 2               |                          |                    |
| 6267           | 32  | 83/02/01                  | 0401:30                  | 0401:46                 | 39              | 77                  |                 | 2               |                          | EW                 |
| 6268           | 32  | 83/02/01                  | 1924:43                  | 1924:52                 | 18              | 82                  |                 | 2               |                          | EW                 |
| 8001           | 33  | 83/02/02                  | 1359:46                  | 1400:02                 | 61              | 172                 | 1156            | 2               | 244, 12                  | I                  |
| 6270           | 34  | 83/02/03                  | 0550:25                  | 0603:37                 | 7389            | 46354               | 1.51E+07        | 15              | 199, 5                   | M5, IN, SA, IS, DG |
| 6271           | 34  | 83/02/03                  | 1828:23                  | 1828:43                 | 65              | 85                  |                 | 2               |                          |                    |
| 6272           | 34  | 83/02/03                  | 1829:49                  | 1829:59                 | 55              | 141                 | 1377            | 2               | 195, 4                   |                    |
| 6273           | 34  | 83/02/03                  | 1830:44                  | 1832:16                 | 331             | 359                 | 16595           | 2               | 195, 4                   |                    |
| 8002           | 35  | 83/02/04                  | 0053:02                  | 0053:15                 | 27              | 108                 | 800             | 2               | 244, 13                  | I                  |
| 6275           | 35  | 83/02/04                  | 1104:56                  | 1106:02                 | 131             | 60                  |                 | 2               |                          |                    |
| 8003           | 35  | 83/02/04                  | 1945:37                  | 1946:37                 | 179             | 81                  |                 | 2               |                          | I                  |
| 8004           | 35  | 83/02/04                  | 2250:43                  | 2250:52                 | 66              | 53                  |                 | 2               |                          | I                  |
| 6276           | 36  | 83/02/05                  | 0035:37                  | 0036:41                 | 100             | 64                  |                 | 2               |                          |                    |
| 6277           | 36  | 83/02/05                  | 0152:22                  | 0153:44                 | 295             | 186                 | 7661            | 3               | 195, 6                   | SA                 |
| 6278           | 36  | 83/02/05                  | 0700:22                  | 0701:33                 | 197             | 405                 | 11369           | 3               | 195, 7                   |                    |
| 6279           | 36  | 83/02/05                  | 1027:34                  | 1027:42                 | 53              | 60                  |                 | 2               |                          |                    |
| 6280           | 36  | 83/02/05                  | 1337:07                  | 1340:19                 | 465             | 81                  | 6709            | 2               | 195, 8                   |                    |
| 6281           | 36  | 83/02/05                  | 1449:07                  | 1450:13                 | 102             | 93                  |                 | 5               |                          |                    |
| 6282           | 36  | 83/02/05                  | 1803:43                  | 1805:26                 | 126             | 77                  |                 | 2               |                          |                    |
| 6283           | 36  | 83/02/05                  | 1806:19                  | 1807:34                 | 172             | 67                  |                 | 3               |                          |                    |
| 6284           | 36  | 83/02/05                  | 1811:08                  | 1812:21                 | 121             | 76                  |                 | 3               |                          |                    |
| 6285           | 36  | 83/02/05                  | 1813:31                  | 1814:09                 | 104             | 69                  |                 | 2               |                          |                    |
| 6286           | 37  | 83/02/06                  | 0508:43                  | 0509:13                 | 60              | 54                  |                 | 2               |                          |                    |
| 6287           | 37  | 83/02/06                  | 0512:42                  | 0513:05                 | 62              | 60                  |                 | 2               |                          |                    |
| 6288           | 37  | 83/02/06                  | 0527:00                  | 0528:05                 | 147             | 77                  |                 | 2               |                          |                    |
| 6289           | 37  | 83/02/06                  | 1430:54                  | 1431:26                 | 64              | 300                 | 6276            | 7               | 195, 9                   |                    |
| 6290           | 37  | 83/02/06                  | 1501:38                  | 1502:25                 | 70              | 59                  |                 | 2               |                          |                    |
| 6291           | 37  | 83/02/06                  | 1609:25                  | 1610:09                 | 77              | 96                  |                 | 5               |                          |                    |
| 6292           | 37  | 83/02/06                  | 1735:54                  | 1747:44                 | 1025            | 82                  | 6635            | 2               | 195, 10                  |                    |
| 8006           | 38  | 83/02/07                  | 2028:03                  | 2029:25                 | 666             | 79                  | 3042            | 2               | 244, 14                  | I, SG              |
| 6294           | 40  | 83/02/09                  | 1332:07                  | 1332:34                 | 53              | 92                  |                 | 8               |                          | AX                 |
| 6295           | 40  | 83/02/09                  | 1506:58                  | 1510:35                 | 466             | 138                 | 12400           | 8               | 195, 12                  | AX                 |
| 6296           | 41  | 83/02/10                  | 1220:29                  | 1220:45                 | 52              | 149                 | 740             | 5               | 195, 13                  |                    |
| 6297           | 43  | 83/02/12                  | 1316:44                  | 1317:15                 | 79              | 106                 | 2338            | 5               | 195, 14                  | AX                 |
| 6298           | 45  | 83/02/14                  | 0929:58                  | 0931:16                 | 188             | 68                  |                 | 3               |                          | AX                 |
| 8008           | 58  | 83/02/27                  | 2358:46                  | 2358:46                 | 80              | 78                  |                 | 2               |                          | I                  |
| 6301           | 60  | 83/03/01                  | 1046:14                  | 1046:37                 | 119             | 306                 | 5438            | 3               | 195, 15                  |                    |
| 6302           | 60  | 83/03/01                  | 1316:40                  | 1317:14                 | 199             | 72                  |                 | 2               |                          |                    |
| 6303           | 60  | 83/03/01                  | 1951:14                  | 1951:29                 | 54              | 69                  |                 | 2               |                          |                    |
| 6304           | 60  | 83/03/01                  | 2205:57                  | 2207:20                 | 136             | 117                 | 2935            | 2               | 195, 16                  |                    |
| 6309           | 62  | 83/03/03                  | 2220:00                  | 2220:47                 | 165             | 84                  |                 | 6               |                          | AX, EW             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8009           | 64  | 83/03/05                  | 1557:15                  | 1557:33                 | 22              | 66                  |                 | 2               |                          | I     |
| 6315           | 65  | 83/03/06                  | 0209:50                  | 0211:05                 | 164             | 94                  |                 | 4               |                          | AX    |
| 6334           | 67  | 83/03/08                  | 2253:10                  | 2254:14                 | 147             | 76                  |                 | 4               |                          |       |
| 6335           | 68  | 83/03/09                  | 0010:21                  | 0011:38                 | 210             | 67                  |                 | 2               |                          |       |
| 6336           | 69  | 83/03/10                  | 0006:23                  | 0008:37                 | 675             | 171                 | 21026           | 2               | 196, 7                   |       |
| 6340           | 71  | 83/03/12                  | 2128:22                  | 2129:31                 | 134             | 72                  |                 | 4               |                          | AX    |
| 6341           | 72  | 83/03/13                  | 0006:42                  | 0007:10                 | 73              | 69                  |                 | 4               |                          | AX    |
| 6347           | 73  | 83/03/14                  | 2008:17                  | 2009:09                 | 174             | 69                  |                 | 4               |                          |       |
| 6348           | 73  | 83/03/14                  | 2013:34                  | 2013:54                 | 71              | 57                  |                 | 3               |                          |       |
| 6349           | 73  | 83/03/14                  | 2046:32                  | 2047:38                 | 105             | 52                  |                 | 4               |                          |       |
| 6350           | 73  | 83/03/14                  | 2050:08                  | 2051:01                 | 89              | 64                  |                 | 10              |                          |       |
| 6351           | 73  | 83/03/14                  | 2143:10                  | 2150:36                 | 505             | 71                  | 7817            | 4               | 196, 11                  |       |
| 6363           | 75  | 83/03/16                  | 2158:59                  | 2200:03                 | 157             | 84                  |                 | 2               |                          |       |
| 6370           | 76  | 83/03/17                  | 0223:08                  | 0223:50                 | 889             | 161                 | 20988           | 2               | 196, 15                  |       |
| 6371           | 76  | 83/03/17                  | 0722:18                  | 0723:52                 | 192             | 99                  |                 | 2               |                          | DG    |
| 6372           | 76  | 83/03/17                  | 0900:11                  | 0900:48                 | 254             | 403                 | 26256           | 2               | 196, 16                  | EN    |
| 6373           | 76  | 83/03/17                  | 1333:56                  | 1334:48                 | 445             | 856                 | 56328           | 4               | 197, 1                   |       |
| 6374           | 76  | 83/03/17                  | 1457:50                  | 1458:59                 | 131             | 63                  | 836             | 2               |                          |       |
| 6375           | 77  | 83/03/18                  | 0049:48                  | 0050:40                 | 102             | 106                 | 3022            | 2               | 197, 2                   |       |
| 6376           | 77  | 83/03/18                  | 0152:46                  | 0153:45                 | 687             | 154                 | 13264           | 2               | 197, 3                   |       |
| 6377           | 77  | 83/03/18                  | 0806:45                  | 0807:25                 | 253             | 149                 | 7328            | 2               | 197, 4                   | EW    |
| 6368           | 77  | 83/03/18                  | 1852:20                  | 1853:26                 | 183             | 61                  |                 | 2               |                          |       |
| 6369           | 77  | 83/03/18                  | 1924:01                  | 1924:53                 | 201             | 65                  |                 | 3               |                          |       |
| 6378           | 79  | 83/03/20                  | 1210:34                  | 1210:46                 | 31              | 52                  | 245             | 2               |                          |       |
| 6380           | 80  | 83/03/21                  | 2016:26                  | 2016:51                 | 51              | 65                  |                 | 2               |                          |       |
| 6381           | 80  | 83/03/21                  | 2123:36                  | 2124:16                 | 91              | 62                  |                 | 2               |                          |       |
| 6382           | 81  | 83/03/22                  | 0156:35                  | 0156:49                 | 22              | 62                  |                 | 2               |                          |       |
| 6383           | 82  | 83/03/23                  | 0125:17                  | 0125:53                 | 176             | 70                  |                 | 2               |                          |       |
| 8017           | 82  | 83/03/23                  | 1852:11                  | 1852:46                 | 117             | 1041                | 27819           | 4               | 245, 2                   | I ,ND |
| 8018           | 83  | 83/03/24                  | 1538:10                  | 1538:41                 | 77              | 55                  |                 | 2               |                          | I     |
| 6385           | 84  | 83/03/25                  | 0242:28                  | 0242:53                 | 46              | 63                  |                 | 2               |                          | EW    |
| 6386           | 84  | 83/03/25                  | 0245:08                  | 0247:41                 | 480             | 86                  | 6532            | 2               | 197, 6                   |       |
| 6387           | 84  | 83/03/25                  | 0608:08                  | 0608:13                 | 19              | 80                  |                 | 2               |                          |       |
| 6388           | 84  | 83/03/25                  | 1015:40                  | 1016:59                 | 200             | 75                  |                 | 4               |                          | AX    |
| 6392           | 90  | 83/03/31                  | 0025:31                  | 0025:48                 | 25              | 85                  |                 | 5               |                          |       |
| 6393           | 94  | 83/04/04                  | 1034:02                  | 1034:40                 | 126             | 181                 | 4410            | 3               | 197, 10                  |       |
| 8019           | 94  | 83/04/04                  | 1326:30                  | 1326:36                 | 38              | 103                 | 860             | 2               | 245, 3                   | I     |
| 8020           | 94  | 83/04/04                  | 1328:07                  | 1328:14                 | 48              | 111                 | 856             | 2               | 245, 3                   | I     |
| 8021           | 94  | 83/04/04                  | 1642:34                  | 1643:18                 | 94              | 4052                | 48597           | 7               | 245, 4                   | MS, I |
| 8022           | 94  | 83/04/04                  | 2002:33                  | 2002:53                 | 64              | 131                 | 1992            | 2               | 245, 6                   | I     |
| 8023           | 95  | 83/04/05                  | 0426:30                  | 0426:47                 | 38              | 88                  |                 | 2               |                          | I     |
| 8024           | 95  | 83/04/05                  | 1045:42                  | 1047:45                 | 130             | 63                  |                 | 2               |                          | I     |
| 6395           | 105 | 83/04/15                  | 0631:29                  | 0631:59                 | 199             | 75                  |                 | 2               |                          |       |
| 6396           | 105 | 83/04/15                  | 0648:40                  | 0649:29                 | 175             | 99                  |                 | 2               |                          | AX    |
| 6397           | 108 | 83/04/18                  | 0125:54                  | 0132:14                 | 1521            | 731                 | 4.29E+05        | 4               | 197, 11                  | EN    |
| 8025           | 108 | 83/04/18                  | 2019:54                  | 2020:12                 | 32              | 65                  |                 | 2               |                          | I     |
| 8026           | 108 | 83/04/18                  | 2313:00                  | 2313:27                 | 117             | 61                  |                 | 3               |                          | I     |
| 8027           | 109 | 83/04/19                  | 0531:07                  | 0531:23                 | 46              | 203                 | 2021            | 2               | 246, 7                   | I     |
| 6398           | 110 | 83/04/20                  | 0018:39                  | 0019:36                 | 311             | 147                 | 5961            | 2               | 197, 12                  |       |
| 8028           | 111 | 83/04/21                  | 0146:25                  | 0147:10                 | 480             | 68                  | 4521            | 2               | 245, 8                   | I     |
| 8029           | 111 | 83/04/21                  | 0646:18                  | 0647:09                 | 719             | 167                 | 7112            | 3               | 245, 9                   | I     |
| 6400           | 111 | 83/04/21                  | 2033:10                  | 2033:35                 | 33              | 50                  |                 | 2               |                          | EW    |
| 6401           | 111 | 83/04/21                  | 2052:44                  | 2056:17                 | 222             | 64                  |                 | 2               |                          | EW    |
| 6402           | 111 | 83/04/21                  | 2101:35                  | 2103:34                 | 182             | 130                 | 3187            | 2               | 197, 13                  | EW    |
| 8030           | 112 | 83/04/22                  | 0003:40                  | 0004:37                 | 117             | 146                 | 2760            | 2               | 245, 10                  | I     |
| 6403           | 112 | 83/04/22                  | 0145:17                  | 0145:29                 | 29              | 73                  |                 | 2               |                          |       |
| 6404           | 112 | 83/04/22                  | 0624:06                  | 0624:17                 | 25              | 76                  |                 | 2               |                          |       |
| 6408           | 113 | 83/04/23                  | 0730:46                  | 0730:58                 | 31              | 168                 | 735             | 2               | 197, 14                  |       |
| 6409           | 113 | 83/04/23                  | 0803:52                  | 0804:09                 | 34              | 60                  |                 | 2               |                          |       |
| 8031           | 113 | 83/04/23                  | 1555:48                  | 1556:25                 | 55              | 57                  |                 | 2               |                          | I     |
| 6411           | 114 | 83/04/24                  | 0055:02                  | 0056:26                 | 135             | 316                 | 11321           | 4               | 197, 15                  | FS    |
| 6410           | 114 | 83/04/24                  | 2103:47                  | 2105:09                 | 163             | 121                 | 4255            | 5               | 197, 16                  | AX    |
| 8032           | 115 | 83/04/25                  | 2110:50                  | 2111:13                 | 39              | 51                  |                 | 2               |                          | I     |
| 6412           | 116 | 83/04/26                  | 0311:22                  | 0311:44                 | 124             | 180                 | 4128            | 2               | 203, 1                   |       |
| 8033           | 116 | 83/04/26                  | 0810:26                  | 0811:43                 | 290             | 143                 | 8119            | 2               | 245, 11                  | I     |
| 6414           | 116 | 83/04/26                  | 2336:07                  | 2337:38                 | 133             | 653                 | 20540           | 5               | 203, 3                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS      |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|------------|
| 6415           | 117 | 83/04/27                  | 0013:55                  | 0014:04                 | 25              | 72                  |                 | 2               |                          |            |
| 6416           | 117 | 83/04/27                  | 0016:43                  | 0016:57                 | 45              | 69                  |                 | 4               |                          |            |
| 6417           | 117 | 83/04/27                  | 0252:49                  | 0254:50                 | 349             | 1610                | 60262           | 10              | 203, 4                   |            |
| 6418           | 117 | 83/04/27                  | 0336:28                  | 0336:42                 | 45              | 64                  |                 | 2               |                          |            |
| 6421           | 117 | 83/04/27                  | 1349:19                  | 1349:44                 | 64              | 98                  |                 | 2               |                          |            |
| 6422           | 117 | 83/04/27                  | 1600:20                  | 1600:43                 | 35              | 66                  |                 | 2               |                          |            |
| 6423           | 118 | 83/04/28                  | 0051:14                  | 0053:33                 | 195             | 204                 | 6920            | 5               | 203, 6                   |            |
| 6424           | 118 | 83/04/28                  | 1048:15                  | 1049:20                 | 235             | 1579                | 89510           | 6               | 203, 7                   | M5         |
| 6428           | 120 | 83/04/30                  | 0816:31                  | 0816:37                 | 797             | 645                 | 61376           | 3               | 203, 10                  | SA         |
| 6429           | 120 | 83/04/30                  | 2216:12                  | 2218:46                 | 192             | 156                 | 5257            | 6               | 203, 11                  | AX         |
| 8034           | 121 | 83/05/01                  | 1312:04                  | 1314:30                 | 353             | 163                 | 10833           | 2               | 245, 12                  | I          |
| 6430           | 121 | 83/05/01                  | 1714:38                  | 1715:03                 | 47              | 80                  |                 | 2               |                          |            |
| 6431           | 122 | 83/05/02                  | 1243:17                  | 1243:47                 | 76              | 58                  |                 | 3               |                          |            |
| 8035           | 122 | 83/05/02                  | 1542:36                  | 1543:10                 | 65              | 56                  |                 | 2               |                          | I          |
| 6432           | 122 | 83/05/02                  | 1554:49                  | 1558:08                 | 283             | 285                 | 7268            | 4               | 203, 12                  |            |
| 6433           | 122 | 83/05/02                  | 1859:21                  | 1859:36                 | 24              | 85                  | 1098            | 2               |                          |            |
| 6434           | 122 | 83/05/02                  | 1905:04                  | 1905:14                 | 48              | 106                 | 578             | 3               | 203, 13                  |            |
| 6435           | 122 | 83/05/02                  | 2018:21                  | 2018:32                 | 142             | 61                  |                 | 2               |                          |            |
| 6436           | 122 | 83/05/02                  | 2022:29                  | 2023:47                 | 101             | 132                 | 890             | 2               | 203, 14                  |            |
| 6437           | 123 | 83/05/03                  | 0111:14                  | 0111:22                 | 21              | 58                  |                 | 2               |                          |            |
| 6438           | 123 | 83/05/03                  | 0113:22                  | 0113:41                 | 49              | 53                  |                 | 2               |                          |            |
| 6439           | 123 | 83/05/03                  | 0432:04                  | 0432:10                 | 48              | 68                  |                 | 2               |                          |            |
| 6440           | 123 | 83/05/03                  | 2138:18                  | 2139:02                 | 160             | 67                  |                 | 2               |                          |            |
| 8036           | 124 | 83/05/04                  | 0544:07                  | 0544:14                 | 9               | 88                  |                 | 2               |                          | I          |
| 6447           | 125 | 83/05/05                  | 0003:22                  | 0003:55                 | 138             | 88                  |                 | 2               |                          |            |
| 6448           | 125 | 83/05/05                  | 0017:23                  | 0017:23                 | 306             | 121                 | 6991            | 2               | 203, 15                  |            |
| 6449           | 125 | 83/05/05                  | 0023:20                  | 0025:07                 | 129             | 61                  |                 | 2               |                          |            |
| 6450           | 125 | 83/05/05                  | 0515:53                  | 0516:34                 | 337             | 93                  | 6749            | 2               | 203, 16                  |            |
| 6451           | 125 | 83/05/05                  | 1426:06                  | 1427:08                 | 135             | 76                  |                 | 2               |                          |            |
| 6452           | 125 | 83/05/05                  | 1859:57                  | 1901:10                 | 160             | 937                 | 12408           | 5               | 204, 1                   | FS         |
| 6453           | 125 | 83/05/05                  | 2256:25                  | 2256:31                 | 32              | 107                 | 582             | 2               | 204, 2                   |            |
| 8037           | 126 | 83/05/06                  | 0128:04                  | 0128:33                 | 93              | 105                 | 2473            | 2               | 245, 13                  | I          |
| 6454           | 126 | 83/05/06                  | 0318:51                  | 0319:06                 | 94              | 111                 | 986             | 2               | 204, 3                   |            |
| 6455           | 126 | 83/05/06                  | 0650:58                  | 0651:37                 | 114             | 173                 | 4173            | 2               | 204, 4                   |            |
| 6457           | 126 | 83/05/06                  | 2233:49                  | 2234:48                 | 111             | 52                  |                 | 2               |                          |            |
| 6458           | 127 | 83/05/07                  | 0132:06                  | 0133:05                 | 169             | 85                  |                 | 2               |                          |            |
| 6459           | 127 | 83/05/07                  | 0743:32                  | 0745:35                 | 224             | 1634                | 30014           | 4               | 204, 6                   |            |
| 6460           | 127 | 83/05/07                  | 1037:32                  | 1037:58                 | 64              | 63                  |                 | 2               |                          |            |
| 8038           | 127 | 83/05/07                  | 1042:49                  | 1044:31                 | 417             | 226                 | 16888           | 2               | 245, 14                  | I          |
| 6461           | 127 | 83/05/07                  | 1537:16                  | 1537:44                 | 112             | 60                  |                 | 2               |                          |            |
| 6462           | 127 | 83/05/07                  | 1713:57                  | 1714:31                 | 92              | 3269                | 17771           | 6               | 204, 7                   | M5         |
| 6463           | 127 | 83/05/07                  | 1719:08                  | 1719:28                 | 111             | 79                  |                 | 2               |                          |            |
| 6464           | 127 | 83/05/07                  | 2019:18                  | 2019:40                 | 57              | 66                  |                 | 2               |                          |            |
| 6465           | 127 | 83/05/07                  | 2147:47                  | 2148:58                 | 81              | 68                  |                 | 2               |                          |            |
| 6466           | 127 | 83/05/07                  | 2215:32                  | 2218:26                 | 209             | 118044              | 5.36E+06        | 15              | 204, 9                   | M5, ES, FS |
| 6467           | 128 | 83/05/08                  | 0227:22                  | 0228:05                 | 64              | 142                 | 1345            | 2               | 204, 10                  |            |
| 6468           | 128 | 83/05/08                  | 0248:54                  | 0304:41                 | 1040            | 1113                | 3.32E+05        | 6               | 204, 11                  | ES         |
| 6469           | 128 | 83/05/08                  | 1143:28                  | 1143:49                 | 178             | 72                  |                 | 3               |                          |            |
| 6470           | 128 | 83/05/08                  | 1951:40                  | 1952:28                 | 125             | 76                  |                 | 2               |                          |            |
| 6475           | 129 | 83/05/09                  | 0709:36                  | 0710:07                 | 510             | 185                 | 8050            | 2               | 245, 15                  | SG         |
| 6477           | 129 | 83/05/09                  | 1202:27                  | 1203:48                 | 171             | 59                  |                 | 2               |                          |            |
| 6478           | 129 | 83/05/09                  | 1655:18                  | 1655:26                 | 44              | 59                  |                 | 2               |                          |            |
| 6479           | 129 | 83/05/09                  | 1736:30                  | 1737:32                 | 161             | 110                 | 2239            | 3               | 204, 14                  |            |
| 6480           | 129 | 83/05/09                  | 2303:43                  | 2305:36                 | 502             | 20478               | 2.71E+06        | 15              | 204, 15                  | M5, FS     |
| 6485           | 130 | 83/05/10                  | 1319:00                  | 1319:05                 | 23              | 85                  |                 | 2               |                          |            |
| 6486           | 130 | 83/05/10                  | 1742:56                  | 1743:04                 | 32              | 118                 | 452             | 5               | 205, 3                   |            |
| 8039           | 130 | 83/05/10                  | 2359:54                  | 0005:33                 | 1104            | 743                 | 70794           | 7               | 245, 16                  | I          |
| 6487           | 131 | 83/05/11                  | 0451:16                  | 0451:20                 | 9               | 70                  |                 | 2               |                          |            |
| 8040           | 131 | 83/05/11                  | 0753:16                  | 0753:46                 | 80              | 149                 | 2049            | 2               | 245, 17                  | I          |
| 8041           | 131 | 83/05/11                  | 0755:39                  | 0757:10                 | 186             | 89                  |                 | 2               | 245, 17                  | I          |
| 6488           | 131 | 83/05/11                  | 1357:42                  | 1357:49                 | 18              | 72                  |                 | 5               |                          |            |
| 8042           | 131 | 83/05/11                  | 1418:44                  | 1432:47                 | 1479            | 195                 | 24870           | 2               | 246, 1                   | I          |
| 8043           | 131 | 83/05/11                  | 1545:02                  | 1545:15                 | 27              | 64                  |                 | 2               |                          | I          |
| 8044           | 131 | 83/05/11                  | 1612:37                  | 1613:32                 | 113             | 169                 | 5749            | 3               | 246, 2                   | I          |
| 8045           | 131 | 83/05/11                  | 1616:07                  | 1616:38                 | 216             | 80                  | 2715            | 2               | 246, 2                   | I          |
| 8046           | 131 | 83/05/11                  | 1843:13                  | 1843:20                 | 35              | 106                 | 724             | 2               | 246, 3                   | I          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 8047           | 131 | 83/05/11                  | 2004:11                  | 2004:35                 | 273             | 110                 | 3721            | 2               | 246, 4                   | I        |
| 8048           | 131 | 83/05/11                  | 2159:01                  | 2159:53                 | 126             | 72                  |                 | 2               |                          | I        |
| 6489           | 131 | 83/05/11                  | 2211:54                  | 2212:11                 | 212             | 337                 | 20086           | 4               | 205, 4                   | SG,EG    |
| 6490           | 132 | 83/05/12                  | 0248:06                  | 0248:17                 | 31              | 125                 | 723             | 2               | 205, 5                   |          |
| 6491           | 132 | 83/05/12                  | 0252:03                  | 0255:02                 | 1005            | 11608               | 8.48E+05        | 15              | 205, 5                   | M5       |
| 8049           | 132 | 83/05/12                  | 0431:05                  | 0432:05                 | 79              | 68                  |                 | 2               |                          | I        |
| 8050           | 132 | 83/05/12                  | 0722:31                  | 0723:07                 | 55              | 108                 | 1261            | 2               | 246, 5                   | I        |
| 6492           | 132 | 83/05/12                  | 0902:23                  | 0902:33                 | 22              | 70                  |                 | 2               |                          | EW       |
| 8051           | 132 | 83/05/12                  | 1230:11                  | 1230:48                 | 109             | 71                  |                 | 2               | 246, 6                   | I        |
| 8052           | 132 | 83/05/12                  | 1232:52                  | 1233:59                 | 201             | 113                 | 1939            | 2               | 246, 6                   | I        |
| 8053           | 132 | 83/05/12                  | 1237:05                  | 1239:02                 | 695             | 123                 | 8824            | 2               | 246, 6                   | I        |
| 6493           | 132 | 83/05/12                  | 1335:19                  | 1342:15                 | 994             | 298                 | 1.14E+05        | 2               | 205, 6                   | SG,AX    |
| 6494           | 132 | 83/05/12                  | 1418:11                  | 1418:43                 | 82              | 156                 | 2503            | 2               | 205, 6                   |          |
| 6495           | 132 | 83/05/12                  | 1519:54                  | 1520:12                 | 32              | 99                  |                 | 2               |                          |          |
| 6496           | 132 | 83/05/12                  | 1637:42                  | 1638:03                 | 38              | 197                 | 1602            | 4               | 205, 7                   |          |
| 6497           | 132 | 83/05/12                  | 1640:05                  | 1640:23                 | 36              | 238                 | 1660            | 4               | 205, 7                   |          |
| 8054           | 132 | 83/05/12                  | 1720:32                  | 1721:10                 | 46              | 221                 | 2205            | 2               | 246, 7                   | I        |
| 6498           | 133 | 83/05/13                  | 0859:41                  | 0859:55                 | 40              | 88                  | 528             | 2               |                          |          |
| 6499           | 133 | 83/05/13                  | 1021:15                  | 1022:26                 | 191             | 457                 | 13083           | 4               | 205, 8                   | FS       |
| 8057           | 134 | 83/05/14                  | 0348:03                  | 0348:47                 | 135             | 75                  |                 | 2               |                          | I        |
| 8058           | 134 | 83/05/14                  | 0408:35                  | 0409:04                 | 49              | 144                 | 2122            | 2               | 246, 9                   | I        |
| 8059           | 134 | 83/05/14                  | 0413:17                  | 0414:05                 | 109             | 85                  |                 | 2               |                          | I        |
| 8060           | 134 | 83/05/14                  | 1143:09                  | 1143:23                 | 37              | 97                  |                 | 2               |                          | I        |
| 8061           | 134 | 83/05/14                  | 1602:52                  | 1607:37                 | 917             | 198                 | 15578           | 3               | 246, 10                  | I        |
| 6500           | 135 | 83/05/15                  | 0929:44                  | 0929:44                 | 2617            | 374                 | 3.36E+05        | 9               | 205, 9                   | M5,EN,SG |
| 6501           | 135 | 83/05/15                  | 1101:50                  | 1102:18                 | 58              | 93                  |                 | 2               |                          |          |
| 6502           | 135 | 83/05/15                  | 1118:16                  | 1118:32                 | 27              | 62                  |                 | 2               |                          |          |
| 6503           | 135 | 83/05/15                  | 1119:36                  | 1119:48                 | 73              | 61                  |                 | 2               |                          |          |
| 6504           | 135 | 83/05/15                  | 1123:02                  | 1123:33                 | 59              | 75                  |                 | 2               |                          |          |
| 6505           | 135 | 83/05/15                  | 1129:06                  | 1129:22                 | 32              | 70                  |                 | 2               |                          |          |
| 6506           | 135 | 83/05/15                  | 1233:03                  | 1234:15                 | 134             | 126                 | 2762            | 4               | 205, 10                  |          |
| 6507           | 135 | 83/05/15                  | 1558:54                  | 1559:02                 | 22              | 64                  |                 | 2               |                          |          |
| 6508           | 135 | 83/05/15                  | 1610:57                  | 1611:23                 | 122             | 82                  |                 | 2               |                          |          |
| 6509           | 135 | 83/05/15                  | 1729:19                  | 1729:35                 | 91              | 176                 | 1725            | 4               | 205, 11                  |          |
| 8062           | 135 | 83/05/15                  | 2202:21                  | 2202:28                 | 13              | 94                  |                 | 2               |                          | I        |
| 8063           | 136 | 83/05/16                  | 0007:02                  | 0007:22                 | 85              | 99                  |                 | 2               |                          | I        |
| 8064           | 136 | 83/05/16                  | 0009:18                  | 0010:07                 | 143             | 65                  |                 | 2               |                          | I        |
| 8065           | 136 | 83/05/16                  | 0422:19                  | 0423:11                 | 145             | 313                 | 7300            | 2               | 246, 11                  | I        |
| 8066           | 136 | 83/05/16                  | 0443:12                  | 0443:21                 | 52              | 59                  |                 | 2               |                          | I        |
| 6510           | 136 | 83/05/16                  | 0603:18                  | 0603:49                 | 197             | 86                  |                 | 2               |                          |          |
| 6511           | 136 | 83/05/16                  | 1126:12                  | 1126:49                 | 93              | 72                  |                 | 2               |                          | AX       |
| 6512           | 136 | 83/05/16                  | 1342:16                  | 1343:23                 | 166             | 77                  |                 | 2               |                          |          |
| 6513           | 136 | 83/05/16                  | 1400:03                  | 1402:17                 | 493             | 1430                | 1.46E+05        | 5               | 246, 12                  | EG       |
| 8067           | 136 | 83/05/16                  | 1652:16                  | 1703:11                 | 1144            | 181                 | 17946           | 4               | 246, 13                  | I,EG     |
| 6514           | 137 | 83/05/17                  | 1635:58                  | 1636:20                 | 79              | 70                  |                 | 2               |                          |          |
| 6515           | 138 | 83/05/18                  | 1128:16                  | 1128:33                 | 45              | 56                  |                 | 2               |                          |          |
| 8068           | 138 | 83/05/18                  | 1320:51                  | 1321:14                 | 51              | 229                 | 1897            | 2               | 246, 14                  | I        |
| 8069           | 138 | 83/05/18                  | 1321:44                  | 1322:54                 | 88              | 111                 | 1348            | 2               | 246, 14                  | I        |
| 8070           | 138 | 83/05/18                  | 1323:14                  | 1323:53                 | 69              | 84                  |                 | 2               | 246, 14                  | I        |
| 8071           | 138 | 83/05/18                  | 1354:24                  | 1355:16                 | 108             | 71                  |                 | 2               |                          | I        |
| 6516           | 138 | 83/05/18                  | 1447:08                  | 1448:11                 | 279             | 127                 | 6346            | 2               | 205, 13                  | SN,AX    |
| 8072           | 139 | 83/05/19                  | 0931:26                  | 0932:15                 | 86              | 62                  |                 | 2               |                          | I        |
| 8073           | 139 | 83/05/19                  | 1016:24                  | 1016:36                 | 48              | 63                  |                 | 2               |                          | I        |
| 6517           | 140 | 83/05/20                  | 0138:13                  | 0140:23                 | 183             | 73                  |                 | 2               |                          |          |
| 6518           | 140 | 83/05/20                  | 0646:42                  | 0647:14                 | 110             | 70                  |                 | 2               |                          |          |
| 6519           | 140 | 83/05/20                  | 0652:06                  | 0652:22                 | 29              | 93                  |                 | 2               |                          |          |
| 6520           | 140 | 83/05/20                  | 0755:44                  | 0758:46                 | 716             | 109                 | 13876           | 2               | 205, 14                  |          |
| 8074           | 140 | 83/05/20                  | 1134:24                  | 1134:55                 | 46              | 91                  |                 | 2               |                          | I        |
| 6521           | 140 | 83/05/20                  | 1353:40                  | 1353:53                 | 39              | 233                 | 2411            | 4               | 205, 15                  |          |
| 8075           | 140 | 83/05/20                  | 1703:00                  | 1703:32                 | 84              | 67                  |                 | 2               |                          | I        |
| 6522           | 142 | 83/05/22                  | 0911:53                  | 0912:37                 | 117             | 170                 | 3438            | 2               | 205, 16                  | EW       |
| 6523           | 142 | 83/05/22                  | 1139:39                  | 1145:12                 | 541             | 118                 | 11677           | 3               | 206, 1                   | AX,EW    |
| 6524           | 142 | 83/05/22                  | 1223:19                  | 1223:42                 | 42              | 94                  |                 | 2               |                          | EW       |
| 6525           | 142 | 83/05/22                  | 1321:23                  | 1322:00                 | 134             | 69                  |                 | 2               |                          | EW       |
| 6526           | 142 | 83/05/22                  | 2319:13                  | 2319:52                 | 58              | 95                  |                 | 2               |                          | EW       |
| 8076           | 143 | 83/05/23                  | 0840:12                  | 0840:30                 | 116             | 92                  |                 | 2               |                          | I        |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS          |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------------|
| 8077           | 143 | 83/05/23                  | 1300:48                  | 1300:55                 | 44              | 94                  |                 | 2               |                          | I              |
| 6528           | 144 | 83/05/24                  | 1601:12                  | 1602:04                 | 171             | 285                 | 16136           | 5               | 206, 4                   |                |
| 6529           | 145 | 83/05/25                  | 0946:51                  | 0952:32                 | 593             | 1054                | 96504           | 10              | 206, 5                   | M5             |
| 8078           | 145 | 83/05/25                  | 2323:42                  | 2325:28                 | 240             | 291                 | 13762           | 4               | 246, 15                  | I              |
| 6533           | 148 | 83/05/28                  | 0713:36                  | 0713:49                 | 28              | 70                  |                 | 2               |                          |                |
| 6534           | 150 | 83/05/30                  | 0443:05                  | 0444:14                 | 124             | 148                 | 1948            | 2               | 206, 8                   |                |
| 8079           | 150 | 83/05/30                  | 1340:17                  | 1340:48                 | 62              | 68                  |                 | 2               |                          | I              |
| 6535           | 151 | 83/05/31                  | 0001:48                  | 0008:12                 | 497             | 78                  | 5251            | 2               | 206, 9                   |                |
| 6537           | 151 | 83/05/31                  | 1246:53                  | 1247:19                 | 44              | 71                  |                 | 2               |                          |                |
| 6538           | 151 | 83/05/31                  | 1454:25                  | 1454:44                 | 47              | 69                  |                 | 2               |                          |                |
| 6539           | 151 | 83/05/31                  | 1458:10                  | 1459:47                 | 252             | 237                 | 12720           | 2               | 206, 10                  |                |
| 8080           | 151 | 83/05/31                  | 1810:10                  | 1814:43                 | 507             | 176                 | 8754            | 2               | 246, 16                  | I              |
| 8081           | 154 | 83/06/03                  | 0630:52                  | 0631:20                 | 46              | 72                  |                 | 2               |                          | I              |
| 8082           | 154 | 83/06/03                  | 0639:53                  | 0640:21                 | 77              | 71                  |                 | 2               |                          | I              |
| 8083           | 154 | 83/06/03                  | 1003:08                  | 1003:33                 | 41              | 70                  |                 | 2               |                          | I              |
| 8084           | 154 | 83/06/03                  | 1004:11                  | 1006:28                 | 193             | 69                  |                 | 2               |                          | I              |
| 6543           | 154 | 83/06/03                  | 1142:26                  | 1142:48                 | 252             | 396                 | 17567           | 4               | 206, 12                  | FS             |
| 6544           | 154 | 83/06/03                  | 1405:27                  | 1405:38                 | 16              | 77                  |                 | 2               |                          |                |
| 8085           | 154 | 83/06/03                  | 2342:12                  | 2343:02                 | 84              | 86                  |                 | 2               |                          | I              |
| 8086           | 155 | 83/06/04                  | 0615:03                  | 0615:21                 | 45              | 117                 | 702             | 2               | 247, 1                   | I              |
| 8087           | 155 | 83/06/04                  | 1954:20                  | 1955:55                 | 381             | 413                 | 16328           | 2               | 247, 2                   | I              |
| 6545           | 155 | 83/06/04                  | 2147:09                  | 2147:44                 | 70              | 106                 | 1412            | 2               | 206, 13                  |                |
| 8088           | 156 | 83/06/05                  | 0051:14                  | 0051:34                 | 75              | 90                  |                 | 2               |                          | I ,SG          |
| 6546           | 156 | 83/06/05                  | 1105:25                  | 1105:40                 | 39              | 116                 | 572             | 2               | 206, 14                  |                |
| 6547           | 156 | 83/06/05                  | 1227:58                  | 1228:16                 | 33              | 90                  |                 | 2               |                          |                |
| 6548           | 156 | 83/06/05                  | 1412:57                  | 1413:12                 | 81              | 79                  |                 | 2               |                          |                |
| 8089           | 156 | 83/06/05                  | 1536:22                  | 1540:12                 | 1196            | 115                 | 16823           | 2               | 247, 3                   | I ,SA          |
| 8090           | 156 | 83/06/05                  | 1802:13                  | 1802:33                 | 56              | 203                 | 2164            | 3               | 247, 4                   | I              |
| 8091           | 156 | 83/06/05                  | 1814:36                  | 1814:42                 | 62              | 73                  |                 | 2               |                          | I              |
| 6549           | 156 | 83/06/05                  | 1935:19                  | 1939:57                 | 591             | 91                  | 5329            | 2               | 206, 15                  | EW             |
| 6550           | 156 | 83/06/05                  | 1958:42                  | 1959:15                 | 63              | 93                  |                 | 2               |                          | EW             |
| 8092           | 156 | 83/06/05                  | 2123:19                  | 2123:48                 | 78              | 67                  |                 | 2               |                          | I              |
| 8093           | 156 | 83/06/05                  | 2127:31                  | 2128:39                 | 90              | 73                  |                 | 2               |                          | I              |
| 8094           | 156 | 83/06/05                  | 2246:59                  | 2247:35                 | 180             | 87                  |                 | 2               |                          | I              |
| 6551           | 157 | 83/06/06                  | 0036:16                  | 0036:34                 | 42              | 93                  |                 | 2               |                          |                |
| 6552           | 157 | 83/06/06                  | 0355:23                  | 0356:12                 | 90              | 75                  |                 | 2               |                          |                |
| 6553           | 157 | 83/06/06                  | 0400:25                  | 0400:49                 | 91              | 76                  |                 | 2               |                          |                |
| 6554           | 157 | 83/06/06                  | 0423:43                  | 0424:41                 | 510             | 278                 | 23136           | 2               | 206, 16                  |                |
| 6555           | 157 | 83/06/06                  | 0512:14                  | 0516:03                 | 263             | 333                 | 14280           | 2               | 207, 1                   |                |
| 6556           | 157 | 83/06/06                  | 0524:59                  | 0526:23                 | 149             | 81                  |                 | 2               |                          |                |
| 6557           | 157 | 83/06/06                  | 0533:44                  | 0535:05                 | 168             | 93                  |                 | 2               |                          | ND             |
| 6558           | 157 | 83/06/06                  | 0545:34                  | 0546:33                 | 281             | 323                 | 17880           | 3               | 207, 2                   |                |
| 6559           | 157 | 83/06/06                  | 0604:43                  | 0604:50                 | 21              | 83                  |                 | 2               |                          |                |
| 8095           | 157 | 83/06/06                  | 1039:32                  | 1039:58                 | 50              | 70                  |                 | 2               |                          | I              |
| 6560           | 157 | 83/06/06                  | 1336:15                  | 1340:50                 | 4231            | 5806                | 3.06E+06        | 5               | 207, 3                   | M5, IN, SA, ES |
| 6561           | 157 | 83/06/06                  | 1518:52                  | 1519:35                 | 50              | 166                 | 2719            | 2               | 207, 3                   |                |
| 8096           | 157 | 83/06/06                  | 1742:47                  | 1743:01                 | 302             | 640                 | 21567           | 4               | 247, 5                   | I              |
| 8097           | 157 | 83/06/06                  | 1802:06                  | 1802:30                 | 49              | 184                 | 2056            | 2               | 247, 6                   | I              |
| 8098           | 157 | 83/06/06                  | 1804:58                  | 1805:03                 | 14              | 145                 | 396             | 2               | 247, 6                   | I              |
| 6562           | 157 | 83/06/06                  | 2059:22                  | 2059:29                 | 17              | 104                 | 594             | 2               | 207, 4                   |                |
| 6563           | 157 | 83/06/06                  | 2120:18                  | 2120:19                 | 13              | 72                  |                 | 2               |                          |                |
| 6564           | 157 | 83/06/06                  | 2126:36                  | 2128:21                 | 215             | 127                 | 6587            | 2               | 207, 5                   |                |
| 8099           | 157 | 83/06/06                  | 2309:23                  | 2309:27                 | 16              | 139                 | 961             | 2               | 247, 7                   | I              |
| 8100           | 157 | 83/06/06                  | 2322:56                  | 2323:08                 | 29              | 83                  |                 | 2               |                          | I              |
| 8101           | 158 | 83/06/07                  | 0024:07                  | 0024:22                 | 65              | 89                  |                 | 2               |                          | I ,SG          |
| 6565           | 158 | 83/06/07                  | 0055:58                  | 0056:28                 | 50              | 75                  |                 | 2               |                          |                |
| 6566           | 158 | 83/06/07                  | 0227:02                  | 0227:21                 | 202             | 104                 | 2432            | 2               | 207, 6                   |                |
| 6567           | 158 | 83/06/07                  | 0235:19                  | 0236:56                 | 169             | 87                  |                 | 5               |                          | AX             |
| 6568           | 158 | 83/06/07                  | 0405:17                  | 0405:26                 | 22              | 126                 | 638             | 2               | 207, 7                   |                |
| 6569           | 158 | 83/06/07                  | 0837:05                  | 0837:36                 | 63              | 75                  |                 | 2               |                          |                |
| 6573           | 158 | 83/06/07                  | 0853:45                  | 0854:15                 | 39              | 68                  |                 | 2               |                          |                |
| 8102           | 158 | 83/06/07                  | 1412:16                  | 1412:42                 | 44              | 58                  |                 | 2               |                          | I              |
| 6579           | 158 | 83/06/07                  | 2038:59                  | 2040:12                 | 177             | 139                 | 6702            | 2               | 207, 13                  |                |
| 6580           | 158 | 83/06/07                  | 2051:28                  | 2056:46                 | 708             | 146                 | 17953           | 2               | 207, 13                  |                |
| 6581           | 158 | 83/06/07                  | 2108:20                  | 2109:34                 | 107             | 82                  |                 | 2               |                          |                |
| 6582           | 159 | 83/06/08                  | 0449:41                  | 0449:50                 | 69              | 68                  |                 | 2               |                          |                |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8103           | 159 | 83/06/08                  | 1258:58                  | 1303:38                 | 438             | 249                 | 13978           | 2               | 247, 8                   | I     |
| 8104           | 159 | 83/06/08                  | 1530:01                  | 1530:08                 | 18              | 73                  |                 | 2               |                          | I     |
| 8105           | 160 | 83/06/09                  | 2033:48                  | 2034:07                 | 50              | 81                  |                 | 2               |                          | I     |
| 6588           | 160 | 83/06/09                  | 2128:29                  | 2130:06                 | 216             | 426                 | 26365           | 8               | 208, 5                   |       |
| 6589           | 160 | 83/06/09                  | 2158:07                  | 2158:34                 | 420             | 1046                | 76356           | 7               | 208, 5                   | M5,FS |
| 6590           | 160 | 83/06/09                  | 2349:13                  | 2350:09                 | 117             | 108                 | 2641            | 5               | 208, 6                   |       |
| 8106           | 161 | 83/06/10                  | 0212:08                  | 0212:55                 | 76              | 141                 | 1894            | 2               | 247, 9                   | I     |
| 8107           | 161 | 83/06/10                  | 0611:06                  | 0612:59                 | 147             | 75                  |                 | 2               |                          | I     |
| 8108           | 161 | 83/06/10                  | 2107:45                  | 2108:19                 | 63              | 53                  |                 | 4               |                          | I     |
| 8109           | 161 | 83/06/10                  | 2116:44                  | 2117:13                 | 115             | 70                  |                 | 2               |                          | I     |
| 6711           | 162 | 83/06/11                  | 0219:05                  | 0219:27                 | 42              | 80                  |                 | 2               |                          | I     |
| 8110           | 162 | 83/06/11                  | 0651:22                  | 0653:38                 | 354             | 102                 | 5402            | 2               | 247, 10                  | I,SA  |
| 6591           | 162 | 83/06/11                  | 1813:31                  | 1813:45                 | 34              | 70                  |                 | 2               |                          |       |
| 6592           | 162 | 83/06/11                  | 2303:26                  | 2304:09                 | 192             | 101                 | 3750            | 5               |                          |       |
| 6593           | 163 | 83/06/12                  | 0002:44                  | 0003:04                 | 31              | 91                  |                 | 2               |                          |       |
| 6594           | 163 | 83/06/12                  | 2201:09                  | 2203:09                 | 616             | 104                 | 12815           | 4               | 208, 7                   | AX    |
| 6595           | 163 | 83/06/12                  | 2229:24                  | 2230:08                 | 83              | 63                  |                 | 2               |                          |       |
| 6596           | 163 | 83/06/12                  | 2244:45                  | 2245:58                 | 165             | 77                  |                 | 2               |                          |       |
| 6597           | 164 | 83/06/13                  | 0023:25                  | 0024:19                 | 165             | 82                  |                 | 2               |                          |       |
| 6598           | 164 | 83/06/13                  | 0127:28                  | 0127:39                 | 83              | 73                  |                 | 2               |                          |       |
| 6599           | 164 | 83/06/13                  | 0311:38                  | 0317:33                 | 387             | 186                 | 7201            | 3               | 208, 8                   |       |
| 6600           | 164 | 83/06/13                  | 0606:30                  | 0606:31                 | 281             | 106                 | 4983            | 2               | 208, 9                   |       |
| 6601           | 164 | 83/06/13                  | 0620:46                  | 0622:17                 | 121             | 95                  |                 | 2               |                          |       |
| 6602           | 164 | 83/06/13                  | 0626:33                  | 0626:44                 | 30              | 82                  |                 | 2               |                          |       |
| 6603           | 164 | 83/06/13                  | 1529:33                  | 1529:57                 | 64              | 156                 | 2379            | 2               | 28, 0                    |       |
| 6604           | 164 | 83/06/13                  | 1710:37                  | 1710:55                 | 39              | 110                 | 789             | 2               | 208, 11                  |       |
| 6605           | 164 | 83/06/13                  | 2335:47                  | 2336:17                 | 61              | 67                  |                 | 2               |                          |       |
| 6606           | 164 | 83/06/13                  | 2338:09                  | 2338:31                 | 52              | 62                  |                 | 2               |                          |       |
| 6607           | 164 | 83/06/13                  | 2339:25                  | 2339:34                 | 72              | 77                  |                 | 2               |                          |       |
| 6608           | 165 | 83/06/14                  | 0434:31                  | 0434:53                 | 74              | 118                 | 1316            | 2               | 208, 12                  |       |
| 6609           | 165 | 83/06/14                  | 1644:15                  | 1646:18                 | 171             | 165                 | 3526            | 2               | 208, 13                  |       |
| 6610           | 165 | 83/06/14                  | 1658:10                  | 1658:15                 | 34              | 70                  |                 | 2               |                          |       |
| 6611           | 165 | 83/06/14                  | 1659:11                  | 1659:52                 | 105             | 76                  |                 | 2               |                          |       |
| 6612           | 166 | 83/06/15                  | 2239:30                  | 2241:24                 | 172             | 298                 | 13722           | 8               | 208, 14                  | AX    |
| 6613           | 167 | 83/06/16                  | 1007:54                  | 1009:57                 | 200             | 79                  |                 | 2               |                          |       |
| 6614           | 167 | 83/06/16                  | 1342:47                  | 1343:04                 | 48              | 67                  |                 | 2               |                          |       |
| 6615           | 167 | 83/06/16                  | 1447:16                  | 1447:55                 | 114             | 72                  |                 | 2               |                          |       |
| 6618           | 168 | 83/06/17                  | 1729:36                  | 1731:51                 | 181             | 65                  |                 | 2               |                          |       |
| 6616           | 168 | 83/06/17                  | 1757:53                  | 1757:59                 | 25              | 87                  |                 | 5               |                          |       |
| 8111           | 169 | 83/06/18                  | 0623:35                  | 0623:50                 | 55              | 69                  |                 | 2               |                          | I     |
| 6619           | 169 | 83/06/18                  | 1647:25                  | 1649:32                 | 183             | 67                  |                 | 3               |                          | EG    |
| 6620           | 170 | 83/06/19                  | 2338:19                  | 2338:35                 | 188             | 134                 | 446             | 2               | 208, 15                  |       |
| 8112           | 171 | 83/06/20                  | 0024:54                  | 0025:31                 | 48              | 83                  |                 | 2               |                          | I     |
| 8113           | 171 | 83/06/20                  | 0343:19                  | 0343:53                 | 40              | 97                  |                 | 2               |                          | I     |
| 6621           | 171 | 83/06/20                  | 1800:43                  | 1802:23                 | 128             | 75                  |                 | 2               |                          |       |
| 8114           | 172 | 83/06/21                  | 0202:19                  | 0202:35                 | 206             | 197                 | 4474            | 2               | 247, 11                  | I     |
| 8115           | 172 | 83/06/21                  | 1140:36                  | 1140:43                 | 113             | 231                 | 2372            | 8               | 247, 12                  | I     |
| 8116           | 172 | 83/06/21                  | 1236:28                  | 1236:52                 | 42              | 63                  |                 | 2               |                          | I     |
| 8117           | 172 | 83/06/21                  | 1237:38                  | 1238:01                 | 57              | 100                 |                 | 2               |                          | I     |
| 8118           | 172 | 83/06/21                  | 1239:13                  | 1239:54                 | 120             | 74                  |                 | 2               |                          | I     |
| 6622           | 172 | 83/06/21                  | 1600:38                  | 1601:44                 | 121             | 242                 | 3795            | 2               | 208, 16                  |       |
| 8119           | 173 | 83/06/22                  | 0023:03                  | 0023:12                 | 16              | 139                 | 621             | 2               | 247, 13                  | I     |
| 8120           | 173 | 83/06/22                  | 0033:14                  | 0033:30                 | 41              | 75                  |                 | 2               |                          | I     |
| 8121           | 173 | 83/06/22                  | 0035:19                  | 0035:57                 | 59              | 60                  |                 | 2               |                          | I     |
| 8122           | 173 | 83/06/22                  | 1841:54                  | 1842:30                 | 85              | 86                  |                 | 2               |                          | I     |
| 8123           | 173 | 83/06/22                  | 2126:49                  | 2127:21                 | 54              | 81                  |                 | 2               |                          | I     |
| 8124           | 173 | 83/06/22                  | 2148:21                  | 2148:37                 | 64              | 70                  |                 | 2               |                          | I,SG  |
| 8125           | 174 | 83/06/23                  | 2153:56                  | 2154:31                 | 80              | 92                  |                 | 2               |                          | I     |
| 6624           | 176 | 83/06/25                  | 2049:00                  | 2051:50                 | 605             | 1614                | 2.81E+05        | 10              | 209, 1                   | FS    |
| 6625           | 177 | 83/06/26                  | 0444:12                  | 0444:40                 | 601             | 223                 | 50457           | 2               | 209, 2                   | AX,EW |
| 6626           | 177 | 83/06/26                  | 1405:52                  | 1408:19                 | 1026            | 2387                | 3.74E+05        | 10              | 209, 3                   | EW    |
| 6627           | 177 | 83/06/26                  | 2352:02                  | 2352:54                 | 67              | 70                  |                 | 2               |                          | EW    |
| 6628           | 179 | 83/06/28                  | 0129:37                  | 0130:55                 | 173             | 150                 | 6432            | 2               | 209, 5                   |       |
| 6629           | 179 | 83/06/28                  | 0249:48                  | 0251:56                 | 276             | 310                 | 23999           | 4               | 209, 6                   |       |
| 8127           | 179 | 83/06/28                  | 1328:43                  | 1328:51                 | 21              | 70                  |                 | 2               |                          | I     |
| 6630           | 179 | 83/06/28                  | 1514:59                  | 1516:12                 | 108             | 83                  |                 | 3               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 6632           | 180 | 83/06/29                  | 1528:30                  | 1530:51                 | 205             | 69                  |                 | 2               |                          |          |
| 6633           | 180 | 83/06/29                  | 1945:04                  | 1946:34                 | 115             | 61                  |                 | 2               |                          |          |
| 6634           | 180 | 83/06/29                  | 2230:00                  | 2230:52                 | 1186            | 239                 | 44450           | 3               | 209, 8                   | SN       |
| 6635           | 181 | 83/06/30                  | 1430:14                  | 1431:29                 | 125             | 73                  |                 | 2               |                          |          |
| 8128           | 182 | 83/07/01                  | 0450:08                  | 0450:24                 | 36              | 73                  |                 | 2               |                          | I        |
| 8129           | 182 | 83/07/01                  | 0809:41                  | 0809:44                 | 15              | 77                  |                 | 2               |                          | I        |
| 8130           | 182 | 83/07/01                  | 0825:05                  | 0825:20                 | 89              | 72                  |                 | 2               |                          | I        |
| 8131           | 182 | 83/07/01                  | 0912:32                  | 0913:39                 | 139             | 116                 | 1264            | 2               | 247, 14                  | I        |
| 6637           | 182 | 83/07/01                  | 1127:19                  | 1127:29                 | 25              | 79                  |                 | 2               |                          |          |
| 6638           | 184 | 83/07/03                  | 0130:24                  | 0130:45                 | 59              | 73                  |                 | 2               |                          |          |
| 6639           | 184 | 83/07/03                  | 0915:52                  | 0916:48                 | 85              | 88                  |                 | 2               |                          |          |
| 6640           | 190 | 83/07/09                  | 1032:33                  | 1033:00                 | 93              | 66                  |                 | 4               |                          |          |
| 6641           | 190 | 83/07/09                  | 1246:38                  | 1248:09                 | 196             | 81                  |                 | 4               |                          |          |
| 6642           | 191 | 83/07/10                  | 0805:42                  | 0806:41                 | 153             | 64                  |                 | 2               |                          |          |
| 6643           | 191 | 83/07/10                  | 1545:07                  | 1545:16                 | 34              | 73                  |                 | 2               |                          |          |
| 6644           | 191 | 83/07/10                  | 1841:12                  | 1841:54                 | 699             | 190                 | 13324           | 2               | 209, 10                  |          |
| 6646           | 194 | 83/07/13                  | 0722:23                  | 0723:14                 | 176             | 568                 | 14017           | 3               | 209, 11                  |          |
| 6647           | 194 | 83/07/13                  | 1451:16                  | 1451:45                 | 120             | 60                  |                 | 2               |                          |          |
| 6645           | 194 | 83/07/13                  | 1813:42                  | 1814:31                 | 79              | 60                  |                 | 2               |                          |          |
| 6648           | 195 | 83/07/14                  | 0322:10                  | 0322:23                 | 28              | 132                 | 988             | 2               | 209, 12                  |          |
| 6649           | 195 | 83/07/14                  | 0751:42                  | 0751:47                 | 14              | 63                  |                 | 2               |                          |          |
| 6650           | 195 | 83/07/14                  | 1556:07                  | 1556:23                 | 37              | 56                  |                 | 2               |                          |          |
| 6651           | 204 | 83/07/23                  | 1935:47                  | 1936:12                 | 35              | 77                  |                 | 2               |                          |          |
| 6652           | 205 | 83/07/24                  | 0954:00                  | 0954:26                 | 69              | 71                  |                 | 2               |                          |          |
| 6653           | 205 | 83/07/24                  | 1151:35                  | 1151:57                 | 40              | 107                 | 585             | 2               | 209, 13                  |          |
| 6654           | 205 | 83/07/24                  | 1407:53                  | 1411:03                 | 200             | 96                  |                 | 3               |                          | ES,AX    |
| 6655           | 205 | 83/07/24                  | 1458:02                  | 1459:06                 | 101             | 55                  |                 | 2               |                          |          |
| 6656           | 205 | 83/07/24                  | 2153:39                  | 2153:59                 | 528             | 379                 | 44137           | 5               | 209, 14                  | SN       |
| 6657           | 207 | 83/07/26                  | 1145:28                  | 1146:02                 | 52              | 156                 | 5000            | 2               | 209, 15                  | SN,ES,EW |
| 8135           | 208 | 83/07/27                  | 1928:25                  | 1928:31                 | 14              | 56                  |                 | 2               |                          | I        |
| 6658           | 208 | 83/07/27                  | 2230:23                  | 2232:01                 | 624             | 120                 | 19315           | 5               | 209, 16                  | EW       |
| 6659           | 208 | 83/07/27                  | 2313:18                  | 2314:00                 | 195             | 80                  |                 | 5               |                          | ND,EW    |
| 6660           | 209 | 83/07/28                  | 0022:52                  | 0023:07                 | 26              | 327                 | 1495            | 3               | 210, 1                   | EW       |
| 6661           | 209 | 83/07/28                  | 0142:01                  | 0142:12                 | 32              | 76                  |                 | 2               |                          | EW       |
| 6662           | 209 | 83/07/28                  | 0220:57                  | 0222:51                 | 224             | 73                  |                 | 2               |                          | EW       |
| 6663           | 209 | 83/07/28                  | 0513:34                  | 0513:54                 | 165             | 61                  |                 | 2               |                          | EW       |
| 6664           | 210 | 83/07/29                  | 2104:07                  | 2104:31                 | 39              | 67                  |                 | 3               |                          |          |
| 6665           | 210 | 83/07/29                  | 2107:21                  | 2108:06                 | 80              | 92                  |                 | 3               |                          |          |
| 6666           | 211 | 83/07/30                  | 1509:55                  | 1515:27                 | 540             | 417                 | 42115           | 5               | 210, 2                   |          |
| 6667           | 211 | 83/07/30                  | 1824:31                  | 1824:35                 | 13              | 88                  |                 | 2               | 210, 3                   |          |
| 6668           | 211 | 83/07/30                  | 1825:32                  | 1825:45                 | 45              | 202                 | 1440            | 3               | 210, 3                   |          |
| 6669           | 211 | 83/07/30                  | 1826:58                  | 1827:00                 | 33              | 149                 | 732             | 2               | 210, 3                   |          |
| 6670           | 211 | 83/07/30                  | 1910:13                  | 1910:35                 | 40              | 89                  |                 | 2               |                          |          |
| 6671           | 211 | 83/07/30                  | 2151:37                  | 2154:34                 | 442             | 120                 | 8342            | 3               | 210, 4                   |          |
| 6672           | 212 | 83/07/31                  | 0214:15                  | 0215:17                 | 130             | 316                 | 3891            | 3               | 210, 5                   |          |
| 6673           | 212 | 83/07/31                  | 2026:47                  | 2026:58                 | 18              | 76                  |                 | 2               |                          |          |
| 6674           | 212 | 83/07/31                  | 2153:09                  | 2153:57                 | 174             | 135                 | 5005            | 2               | 210, 6                   |          |
| 6675           | 213 | 83/08/01                  | 0328:18                  | 0329:42                 | 1495            | 480                 | 1.76E+05        | 3               | 210, 7                   |          |
| * 6676         | 213 | 83/08/01                  | 1955:15                  | 1955:46                 | 57              | 65                  |                 | 2               |                          |          |
| * 6677         | 213 | 83/08/01                  | 2304:55                  | 2305:43                 | 175             | 92                  |                 | 2               |                          | AX       |
| * 6678         | 214 | 83/08/02                  | 1859:35                  | 1900:06                 | 81              | 1028                | 8621            | 7               | 210, 8                   |          |
| * 6679         | 214 | 83/08/02                  | 2340:21                  | 2344:33                 | 627             | 270                 | 23632           | 3               | 210, 10                  |          |
| * 6680         | 214 | 83/08/02                  | 2359:07                  | 2359:46                 | 381             | 284                 | 11654           | 5               | 210, 10                  |          |
| * 6681         | 215 | 83/08/03                  | 1517:29                  | 1517:52                 | 200             | 75                  |                 | 2               |                          | SN       |
| * 6682         | 215 | 83/08/03                  | 2208:01                  | 2208:12                 | 68              | 71                  |                 | 2               |                          |          |
| * 6683         | 216 | 83/08/04                  | 1540:27                  | 1542:50                 | 195             | 73                  |                 | 2               |                          |          |
| 6684           | 218 | 83/08/06                  | 2042:42                  | 2043:09                 | 129             | 85                  |                 | 2               |                          |          |
| 8156           | 219 | 83/08/07                  | 0648:54                  | 0649:17                 | 51              | 81                  |                 | 2               |                          | I        |
| 8157           | 219 | 83/08/07                  | 0652:03                  | 0653:11                 | 439             | 464                 | 24154           | 4               | 248, 7                   | I        |
| 6685           | 219 | 83/08/07                  | 1237:41                  | 1238:24                 | 92              | 61                  |                 | 2               |                          |          |
| 6686           | 219 | 83/08/07                  | 1242:22                  | 1242:30                 | 40              | 55                  |                 | 2               |                          |          |
| 8165           | 219 | 83/08/07                  | 2153:36                  | 2157:28                 | 1457            | 591                 | 58855           | 5               | 248, 10                  | I        |
| 8171           | 220 | 83/08/08                  | 0248:57                  | 0254:45                 | 2042            | 2843                | 4.36E+05        | 6               | 248, 13                  | I ,DG    |
| 8172           | 220 | 83/08/08                  | 0409:13                  | 0411:57                 | 546             | 118                 | 9994            | 2               | 248, 14                  | I ,SA    |
| 8173           | 220 | 83/08/08                  | 0439:38                  | 0444:38                 | 454             | 88                  | 6762            | 2               | 248, 15                  | I        |
| 6687           | 220 | 83/08/08                  | 0946:50                  | 0947:00                 | 45              | 53                  |                 | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 8183           | 220 | 83/08/08                  | 2314:41                  | 2315:10                 | 80              | 108                 | 936             | 3               | 249, 5                   | I      |
| 8184           | 220 | 83/08/08                  | 2316:29                  | 2316:59                 | 63              | 180                 | 3225            | 3               | 249, 5                   | I      |
| 8185           | 222 | 83/08/10                  | 0543:56                  | 0544:16                 | 37              | 67                  |                 | 2               |                          | I      |
| 6688           | 222 | 83/08/10                  | 1203:24                  | 1204:09                 | 49              | 372                 | 3570            | 5               | 210, 11                  |        |
| 8186           | 222 | 83/08/10                  | 2239:03                  | 2239:14                 | 27              | 48                  |                 | 2               |                          | I      |
| 8187           | 222 | 83/08/10                  | 2304:24                  | 2306:00                 | 286             | 111                 | 4509            | 2               | 249, 6                   | I      |
| 6689           | 223 | 83/08/11                  | 1621:58                  | 1622:16                 | 115             | 140                 | 1426            | 3               | 210, 12                  | EW     |
| 8192           | 226 | 83/08/14                  | 0723:36                  | 0724:10                 | 84              | 113                 | 2028            | 2               | 701, 1                   | I      |
| 6690           | 226 | 83/08/14                  | 1453:44                  | 1454:56                 | 116             | 77                  |                 | 5               |                          |        |
| 6691           | 226 | 83/08/14                  | 1632:35                  | 1632:43                 | 25              | 55                  |                 | 2               |                          |        |
| 6692           | 226 | 83/08/14                  | 1639:04                  | 1641:36                 | 1194            | 1976                | 1.18E+05        | 5               | 210, 13                  | M5     |
| 6693           | 227 | 83/08/15                  | 0043:37                  | 0044:01                 | 112             | 67                  |                 | 2               |                          |        |
| 6694           | 227 | 83/08/15                  | 0228:43                  | 0229:54                 | 126             | 82                  |                 | 2               |                          |        |
| 8193           | 227 | 83/08/15                  | 0829:46                  | 0829:51                 | 72              | 59                  |                 | 2               |                          | I      |
| 8194           | 227 | 83/08/15                  | 0937:16                  | 0937:52                 | 467             | 1444                | 61699           | 5               | 701, 2                   | M5, I  |
| 6695           | 228 | 83/08/16                  | 0018:05                  | 0019:43                 | 137             | 62                  |                 | 2               |                          |        |
| 6696           | 228 | 83/08/16                  | 0819:14                  | 0820:06                 | 160             | 69                  |                 | 2               |                          |        |
| 6697           | 228 | 83/08/16                  | 1401:16                  | 1401:32                 | 43              | 59                  |                 | 2               |                          |        |
| 6698           | 228 | 83/08/16                  | 1408:36                  | 1409:08                 | 103             | 60                  |                 | 3               |                          | AX     |
| 6699           | 228 | 83/08/16                  | 1555:45                  | 1557:09                 | 243             | 126                 | 7031            | 2               | 210, 14                  |        |
| 6700           | 228 | 83/08/16                  | 2220:04                  | 2221:03                 | 196             | 65                  |                 | 2               |                          |        |
| 8195           | 229 | 83/08/17                  | 0233:09                  | 0233:25                 | 252             | 169                 | 8615            | 2               | 701, 4                   | I      |
| 6701           | 230 | 83/08/18                  | 1015:12                  | 1015:57                 | 117             | 82                  |                 | 2               |                          | ND     |
| 8205           | 230 | 83/08/18                  | 1101:24                  | 1101:40                 | 117             | 169                 |                 | 3               |                          | I, EN  |
| 6702           | 230 | 83/08/18                  | 1510:54                  | 1511:51                 | 64              | 58                  |                 | 2               |                          |        |
| 6703           | 230 | 83/08/18                  | 1512:54                  | 1513:17                 | 34              | 60                  |                 | 2               |                          |        |
| 6704           | 231 | 83/08/19                  | 2233:12                  | 2233:52                 | 150             | 81                  |                 | 2               |                          | ND     |
| 6705           | 231 | 83/08/19                  | 2239:38                  | 2241:24                 | 199             | 74                  |                 | 2               |                          |        |
| 8214           | 232 | 83/08/20                  | 0508:41                  | 0513:34                 | 587             | 81                  | 7891            | 2               | 701, 5                   | I      |
| 8215           | 233 | 83/08/21                  | 1219:48                  | 1220:48                 | 80              | 59                  |                 | 3               |                          | I      |
| 8216           | 234 | 83/08/22                  | 1018:56                  | 1019:03                 | 61              | 128                 | 1307            | 5               | 701, 6                   | I      |
| 6706           | 235 | 83/08/23                  | 0732:31                  | 0735:45                 | 376             | 70                  | 3841            | 2               | 210, 15                  | AX     |
| 6707           | 235 | 83/08/23                  | 2321:54                  | 2322:32                 | 41              | 176                 | 1644            | 2               | 210, 16                  | SA     |
| 6708           | 239 | 83/08/27                  | 0743:11                  | 0744:02                 | 144             | 104                 | 4293            | 2               |                          |        |
| 8227           | 246 | 83/09/03                  | 2233:57                  | 2235:08                 | 124             | 62                  |                 | 2               |                          | I      |
| 6709           | 248 | 83/09/05                  | 2004:19                  | 2005:33                 | 130             | 953                 | 25241           | 5               | 211, 1                   |        |
| * 6710         | 259 | 83/09/16                  | 0140:58                  | 0143:02                 | 181             | 185                 | 9502            | 3               |                          | AX, ND |
| 8228           | 259 | 83/09/16                  | 1153:14                  | 1153:40                 | 66              | 216                 |                 | 3               | 701, 7                   | I      |
| 8229           | 259 | 83/09/16                  | 2209:31                  | 2210:33                 | 242             | 84                  | 4163            | 3               | 701, 8                   | I      |
| 8230           | 260 | 83/09/17                  | 0117:32                  | 0118:20                 | 116             | 54                  |                 | 2               |                          | I      |
| 6712           | 263 | 83/09/20                  | 1615:19                  | 1615:29                 | 27              | 64                  |                 | 2               |                          |        |
| 6713           | 265 | 83/09/22                  | 0113:00                  | 0113:14                 | 37              | 54                  |                 | 2               |                          |        |
| 6714           | 265 | 83/09/22                  | 0114:21                  | 0115:18                 | 82              | 62                  |                 | 2               |                          |        |
| 6715           | 265 | 83/09/22                  | 0305:38                  | 0305:46                 | 23              | 83                  |                 | 2               |                          |        |
| 8233           | 277 | 83/10/04                  | 1332:16                  | 1332:31                 | 40              | 65                  |                 | 2               |                          | I      |
| 8234           | 277 | 83/10/04                  | 1545:56                  | 1558:33                 | 1284            | 489                 | 1.65E+05        | 9               | 701, 9                   | M5, I  |
| 6716           | 277 | 83/10/04                  | 1905:35                  | 1908:47                 | 228             | 156                 | 10506           | 4               | 211, 2                   | AX     |
| 8235           | 279 | 83/10/06                  | 1116:27                  | 1117:21                 | 80              | 59                  |                 | 2               |                          | I      |
| 6717           | 281 | 83/10/08                  | 0145:37                  | 0145:52                 | 23              | 3499                | 1657            | 3               | 211, 3                   |        |
| 8236           | 281 | 83/10/08                  | 2357:44                  | 2357:48                 | 37              | 69                  |                 | 2               |                          | I      |
| 6718           | 282 | 83/10/09                  | 0207:41                  | 0207:54                 | 36              | 75                  |                 | 2               |                          | EW     |
| 8237           | 282 | 83/10/09                  | 1141:22                  | 1141:53                 | 179             | 1067                | 26676           | 4               | 701, 10                  | I      |
| 6719           | 283 | 83/10/10                  | 0811:41                  | 0812:14                 | 172             | 135                 | 5270            | 2               | 211, 4                   | EW     |
| 8238           | 283 | 83/10/10                  | 1047:09                  | 1047:32                 | 64              | 71                  |                 | 2               |                          | I      |
| 6720           | 284 | 83/10/11                  | 2324:49                  | 2325:40                 | 197             | 74                  |                 | 2               |                          |        |
| 8241           | 286 | 83/10/13                  | 0622:15                  | 0625:23                 | 676             | 143                 | 6574            | 2               | 701, 11                  | I      |
| 8242           | 286 | 83/10/13                  | 0635:13                  | 0635:21                 | 97              | 55                  |                 | 2               |                          | I      |
| 6723           | 287 | 83/10/14                  | 0903:24                  | 0906:18                 | 416             | 140                 | 14992           | 2               | 211, 6                   |        |
| 6726           | 291 | 83/10/18                  | 0143:48                  | 0144:58                 | 197             | 97                  |                 | 2               |                          |        |
| 8243           | 291 | 83/10/18                  | 0738:07                  | 0738:29                 | 72              | 73                  |                 | 2               |                          | I      |
| 8244           | 291 | 83/10/18                  | 2029:33                  | 2029:57                 | 68              | 54                  |                 | 2               |                          | I      |
| 6734           | 292 | 83/10/19                  | 0456:27                  | 0457:14                 | 58              | 128                 | 1374            | 4               | 211, 10                  |        |
| 6736           | 292 | 83/10/19                  | 0929:09                  | 0929:53                 | 75              | 97                  |                 | 2               |                          |        |
| 6739           | 292 | 83/10/19                  | 1958:12                  | 2009:15                 | 1878            | 974                 | 3.01E+05        | 5               | 701, 12                  | M5, SG |
| 6740           | 293 | 83/10/20                  | 0542:44                  | 0543:21                 | 92              | 69                  |                 | 2               |                          |        |
| 6756           | 303 | 83/10/30                  | 1928:58                  | 1930:05                 | 158             | 74                  |                 | 2               |                          |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 6762           | 304 | 83/10/31                  | 1613:19                  | 1616:18                 | 379             | 208                 | 12959           | 2               | 212, 7                   | EW    |
| 6769           | 311 | 83/11/07                  | 2001:45                  | 2002:21                 | 521             | 75                  |                 | 2               |                          |       |
| 6770           | 317 | 83/11/13                  | 1603:36                  | 1604:11                 | 90              | 63                  |                 | 4               |                          |       |
| 6771           | 317 | 83/11/13                  | 1929:30                  | 1929:40                 | 75              | 58                  |                 | 4               |                          | EW    |
| 6772           | 318 | 83/11/14                  | 1541:13                  | 1541:50                 | 131             | 65                  |                 | 4               |                          |       |
| 6773           | 319 | 83/11/15                  | 2008:10                  | 2008:56                 | 181             | 74                  |                 | 5               |                          | SG,ND |
| 6774           | 324 | 83/11/20                  | 1143:29                  | 1143:54                 | 158             | 1037                | 13469           | 15              | 212, 9                   | FS    |
| 6785           | 349 | 83/12/15                  | 1959:35                  | 2000:43                 | 168             | 84                  |                 | 4               |                          |       |
| 8248           | 354 | 83/12/20                  | 1941:50                  | 1942:52                 | 117             | 70                  |                 | 2               |                          | I     |
| 8249           | 354 | 83/12/20                  | 2111:20                  | 2111:46                 | 175             | 76                  |                 | 2               |                          | I     |
| 8250           | 354 | 83/12/20                  | 2117:48                  | 2118:58                 | 149             | 72                  |                 | 3               |                          | I     |
| 7223           | 358 | 83/12/24                  | 1943:45                  | 1944:14                 | 147             | 63                  |                 | 3               |                          | SG    |
| 6791           | 364 | 83/12/30                  | 1804:29                  | 1806:05                 | 367             | 101                 | 8505            | 8               | 213, 2                   | AX    |

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 6792           | 2   | 84/01/02                  | 1514:58                  | 1515:50                 | 103             | 83                  |                 | 4               |                          | EW    |
| 2201           | 4   | 84/01/04                  | 1108:34                  | 1108:36                 | 14              | 69                  |                 | 2               |                          | I     |
| 6793           | 4   | 84/01/04                  | 1246:31                  | 1247:08                 | 74              | 74                  | 793             | 2               |                          |       |
| 6794           | 5   | 84/01/05                  | 1222:59                  | 1225:00                 | 168             | 128                 | 6569            | 5               | 213, 3                   |       |
| 6795           | 24  | 84/01/24                  | 0408:40                  | 0409:37                 | 131             | 114                 | 3438            | 2               | 213, 5                   |       |
| 6796           | 25  | 84/01/25                  | 0247:38                  | 0249:01                 | 161             | 66                  | 6375            | 2               |                          |       |
| 6797           | 26  | 84/01/26                  | 0049:01                  | 0049:01                 | 195             | 95                  |                 | 2               |                          | SG    |
| 6798           | 28  | 84/01/28                  | 2343:15                  | 2343:48                 | 76              | 60                  | 524             | 2               |                          |       |
| 6319           | 29  | 84/01/29                  | 0728:57                  | 0729:10                 | 41              | 60                  |                 | 2               |                          | I     |
| 6799           | 29  | 84/01/29                  | 2238:21                  | 2238:28                 | 158             | 82                  | 2056            | 2               |                          | SG    |
| 6800           | 29  | 84/01/29                  | 2241:25                  | 2243:22                 | 170             | 73                  | 2365            | 2               |                          |       |
| 6801           | 31  | 84/01/31                  | 0034:57                  | 0036:35                 | 166             | 84                  | 3039            | 5               |                          | AX,EW |
| 6802           | 32  | 84/02/01                  | 0011:30                  | 0012:40                 | 172             | 65                  | 1480            | 4               |                          |       |
| 6803           | 33  | 84/02/02                  | 0258:56                  | 0259:39                 | 88              | 103                 | 1773            | 2               | 213, 6                   |       |
| 6804           | 33  | 84/02/02                  | 1839:53                  | 1840:52                 | 210             | 377                 | 20220           | 2               | 213, 7                   |       |
| 6805           | 34  | 84/02/03                  | 1818:15                  | 1818:34                 | 32              | 79                  | 606             | 2               |                          |       |
| 6806           | 34  | 84/02/03                  | 2257:01                  | 2257:59                 | 347             | 78                  | 4190            | 3               | 213, 8                   | SG    |
| 6807           | 35  | 84/02/04                  | 2233:24                  | 2235:02                 | 358             | 345                 | 28290           | 5               | 213, 9                   | SG    |
| 6808           | 36  | 84/02/05                  | 2209:43                  | 2210:41                 | 197             | 92                  | 3910            | 4               |                          | SG    |
| 6809           | 37  | 84/02/06                  | 2146:06                  | 2146:21                 | 53              | 61                  | 538             | 3               |                          | SG,EW |
| 6810           | 39  | 84/02/08                  | 1600:53                  | 1603:43                 | 180             | 91                  | 2185            | 2               |                          |       |
| 2463           | 42  | 84/02/11                  | 2121:12                  | 2121:21                 | 27              | 73                  |                 | 2               |                          | I     |
| 6542           | 42  | 84/02/11                  | 2123:42                  | 2123:48                 | 20              | 62                  |                 | 2               |                          | I     |
| 6811           | 49  | 84/02/18                  | 1713:20                  | 1713:52                 | 159             | 84                  | 129             | 2               |                          |       |
| 6812           | 50  | 84/02/19                  | 0239:06                  | 0244:12                 | 743             | 158                 | 25760           | 2               | 213, 10                  |       |
| 6813           | 50  | 84/02/19                  | 2114:02                  | 2114:30                 | 36              | 89                  | 624             | 2               |                          |       |
| 6814           | 51  | 84/02/20                  | 0031:35                  | 0034:27                 | 277             | 152                 | 6999            | 2               | 213, 11                  |       |
| 6815           | 51  | 84/02/20                  | 1311:20                  | 1312:15                 | 128             | 74                  | 1567            | 2               |                          |       |
| 6816           | 51  | 84/02/20                  | 1600:56                  | 1602:15                 | 122             | 121                 | 1966            | 2               | 213, 12                  |       |
| 6817           | 51  | 84/02/20                  | 1924:57                  | 1925:20                 | 70              | 141                 | 1897            | 2               | 213, 13                  |       |
| 6818           | 52  | 84/02/21                  | 0642:33                  | 0642:57                 | 74              | 77                  | 831             | 2               |                          |       |
| 6819           | 52  | 84/02/21                  | 0644:59                  | 0645:13                 | 44              | 82                  | 340             | 2               |                          |       |
| 6820           | 52  | 84/02/21                  | 0751:45                  | 0752:02                 | 65              | 68                  | 726             | 2               |                          |       |
| 6821           | 52  | 84/02/21                  | 0800:26                  | 0800:59                 | 70              | 397                 | 4485            | 4               | 213, 14                  |       |
| 7107           | 52  | 84/02/21                  | 1440:18                  | 1440:32                 | 44              | 127                 | 884             | 2               | 701, 14                  | I     |
| 6822           | 52  | 84/02/21                  | 2332:36                  | 2333:04                 | 80              | 70                  | 485             | 2               |                          |       |
| 6823           | 53  | 84/02/22                  | 0810:13                  | 0812:43                 | 193             | 82                  | 1501            | 2               |                          | DG    |
| 6824           | 53  | 84/02/22                  | 1213:26                  | 1213:34                 | 32              | 75                  | 231             | 2               |                          |       |
| 6825           | 55  | 84/02/24                  | 0642:29                  | 0643:40                 | 184             | 76                  | 3220            | 2               |                          |       |
| 6826           | 59  | 84/02/28                  | 1305:03                  | 1306:26                 | 148             | 87                  | 1839            | 2               |                          |       |
| 6827           | 61  | 84/03/01                  | 2014:11                  | 2014:52                 | 162             | 70                  | 2028            | 2               |                          |       |
| 6851           | 76  | 84/03/16                  | 0905:28                  | 0905:43                 | 251             | 453                 | 1.24E+05        | 2               | 214, 7                   | SG    |
| 4811           | 76  | 84/03/16                  | 2139:36                  | 2140:04                 | 52              | 67                  |                 | 2               |                          | I     |
| 6855           | 79  | 84/03/19                  | 0145:52                  | 0146:18                 | 39              | 210                 | 1321            | 4               | 214, 9                   | M5    |
| 4420           | 79  | 84/03/19                  | 2339:23                  | 2341:20                 | 199             | 57                  |                 | 2               |                          | I     |
| 6857           | 80  | 84/03/20                  | 0408:12                  | 0408:23                 | 55              | 165                 | 891             | 7               | 214, 11                  |       |
| 6865           | 82  | 84/03/22                  | 1607:05                  | 1611:29                 | 374             | 166                 | 8320            | 4               | 214, 14                  | DG    |
| 6870           | 89  | 84/03/29                  | 1621:00                  | 1621:16                 | 37              | 75                  |                 | 2               |                          |       |
| 6877           | 91  | 84/03/31                  | 0806:29                  | 0808:02                 | 134             | 476                 | 7247            | 5               | 215, 4                   |       |
| 6882           | 94  | 84/04/03                  | 1557:38                  | 1557:50                 | 136             | 73                  | 482             | 2               |                          |       |
| 6885           | 95  | 84/04/04                  | 1530:48                  | 1531:12                 | 58              | 62                  | 496             | 5               |                          |       |
| * 6890         | 106 | 84/04/15                  | 0926:00                  | 0927:10                 | 150             | 78                  | 2050            | 4               |                          | AX    |
| * 8007         | 108 | 84/04/17                  | 0928:50                  | 0929:33                 | 357             | 154                 | 11364           | 2               | 244, 15                  | I     |
| * 6891         | 109 | 84/04/18                  | 1216:03                  | 1218:00                 | 671             | 690                 | 50781           | 7               | 215, 10                  | M5    |
| * 6892         | 110 | 84/04/19                  | 0155:54                  | 0157:26                 | 329             | 410                 | 27374           | 4               | 215, 11                  |       |
| * 6894         | 111 | 84/04/20                  | 0149:52                  | 0150:40                 | 98              | 70                  |                 | 2               |                          | EG,ND |
| * 6897         | 111 | 84/04/20                  | 1312:27                  | 1313:47                 | 86              | 78                  | 711             | 2               |                          |       |
| * 6898         | 111 | 84/04/20                  | 1402:08                  | 1404:59                 | 262             | 122                 | 5713            | 4               | 215, 14                  |       |
| * 6899         | 111 | 84/04/20                  | 1533:46                  | 1539:25                 | 807             | 109                 | 12413           | 2               | 215, 15                  |       |
| * 6900         | 111 | 84/04/20                  | 1659:52                  | 1701:02                 | 1391            | 193                 | 50508           | 2               | 215, 16                  | SN    |
| * 6901         | 111 | 84/04/20                  | 2143:20                  | 2152:03                 | 759             | 104                 | 6516            | 2               | 216, 1                   |       |
| * 6902         | 111 | 84/04/20                  | 2205:15                  | 2206:20                 | 173             | 59                  |                 | 2               |                          | DG    |
| * 6903         | 111 | 84/04/20                  | 2209:42                  | 2210:46                 | 92              | 65                  |                 | 2               |                          |       |
| * 6904         | 111 | 84/04/20                  | 2327:48                  | 2338:57                 | 2898            | 246                 | 59792           | 2               | 216, 2                   | M5    |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 6905         | 112 | 84/04/21                  | 0103:31                  | 0103:52                 | 69              | 58                  |                 | 2               |                          |          |
| * 6906         | 112 | 84/04/21                  | 0106:37                  | 0106:45                 | 35              | 60                  |                 | 2               |                          |          |
| * 6907         | 112 | 84/04/21                  | 0135:15                  | 0137:31                 | 205             | 64                  |                 | 2               |                          |          |
| * 6908         | 112 | 84/04/21                  | 0142:14                  | 0143:25                 | 304             | 128                 | 7233            | 2               | 216, 3                   |          |
| * 6909         | 112 | 84/04/21                  | 0149:13                  | 0151:08                 | 121             | 70                  |                 | 2               |                          |          |
| * 6910         | 112 | 84/04/21                  | 0151:55                  | 0153:05                 | 91              | 77                  |                 | 2               |                          |          |
| * 6911         | 112 | 84/04/21                  | 0242:00                  | 0243:30                 | 1603            | 171                 | 44216           | 3               | 216, 4                   |          |
| * 6912         | 112 | 84/04/21                  | 0315:50                  | 0316:45                 | 185             | 133                 | 3319            | 2               | 216, 4                   |          |
| * 6913         | 112 | 84/04/21                  | 0454:15                  | 0455:19                 | 114             | 67                  |                 | 2               |                          |          |
| * 6914         | 112 | 84/04/21                  | 0540:08                  | 0541:33                 | 101             | 69                  |                 | 2               |                          |          |
| * 6915         | 112 | 84/04/21                  | 0556:30                  | 0556:51                 | 97              | 59                  |                 | 2               |                          |          |
| * 6916         | 112 | 84/04/21                  | 0725:46                  | 0727:22                 | 426             | 1600                | 61431           | 8               | 216, 5                   |          |
| 4812           | 112 | 84/04/21                  | 0936:32                  | 0937:27                 | 108             | 163                 | 4308            | 2               | 702, 2                   | I        |
| 6917           | 112 | 84/04/21                  | 1022:17                  | 1029:08                 | 413             | 192                 | 9535            | 2               | 701, 15                  |          |
| 4875           | 112 | 84/04/21                  | 1156:35                  | 1157:46                 | 449             | 149                 | 6514            | 2               | 701, 16                  | I        |
| * 6918         | 113 | 84/04/22                  | 0130:36                  | 0130:50                 | 40              | 141                 | 2038            | 3               | 216, 7                   |          |
| * 6919         | 113 | 84/04/22                  | 0231:35                  | 0233:01                 | 183             | 487                 | 12849           | 3               | 216, 8                   |          |
| * 6920         | 113 | 84/04/22                  | 0236:08                  | 0236:19                 | 35              | 62                  |                 | 2               |                          |          |
| * 6921         | 113 | 84/04/22                  | 0240:22                  | 0240:31                 | 29              | 66                  |                 | 2               |                          |          |
| * 6922         | 113 | 84/04/22                  | 0258:54                  | 0259:23                 | 59              | 134                 | 1706            | 5               | 216, 9                   |          |
| * 6923         | 113 | 84/04/22                  | 0350:26                  | 0350:35                 | 53              | 66                  |                 | 2               |                          |          |
| * 6924         | 113 | 84/04/22                  | 0351:23                  | 0352:01                 | 84              | 60                  |                 | 2               |                          |          |
| * 6925         | 113 | 84/04/22                  | 0353:02                  | 0354:19                 | 166             | 221                 | 2732            | 3               | 216, 10                  |          |
| * 6926         | 113 | 84/04/22                  | 0356:54                  | 0357:03                 | 18              | 87                  |                 | 2               | 216, 10                  |          |
| * 6927         | 113 | 84/04/22                  | 0400:26                  | 0402:04                 | 151             | 111                 | 2941            | 3               | 216, 10                  |          |
| * 6928         | 113 | 84/04/22                  | 0406:18                  | 0406:32                 | 41              | 84                  |                 | 2               |                          |          |
| * 6929         | 113 | 84/04/22                  | 0426:07                  | 0427:19                 | 96              | 107                 | 2262            | 2               | 216, 11                  |          |
| * 6930         | 113 | 84/04/22                  | 0529:38                  | 0529:55                 | 52              | 61                  |                 | 2               |                          |          |
| * 6931         | 113 | 84/04/22                  | 0538:52                  | 0539:07                 | 32              | 59                  |                 | 2               |                          |          |
| * 6932         | 113 | 84/04/22                  | 0546:28                  | 0546:38                 | 21              | 64                  |                 | 2               |                          |          |
| * 6933         | 113 | 84/04/22                  | 0547:34                  | 0547:46                 | 42              | 60                  |                 | 2               |                          |          |
| * 6934         | 113 | 84/04/22                  | 0650:47                  | 0651:47                 | 164             | 60                  |                 | 2               |                          |          |
| * 6935         | 113 | 84/04/22                  | 0704:02                  | 0705:04                 | 143             | 117                 | 2075            | 3               | 216, 12                  |          |
| * 6936         | 113 | 84/04/22                  | 0712:50                  | 0713:18                 | 87              | 78                  |                 | 2               |                          |          |
| * 6937         | 113 | 84/04/22                  | 0719:16                  | 0719:43                 | 44              | 81                  |                 | 2               |                          |          |
| * 6938         | 113 | 84/04/22                  | 1309:38                  | 1310:14                 | 88              | 27                  |                 | 2               |                          |          |
| * 6939         | 113 | 84/04/22                  | 1400:03                  | 1400:58                 | 288             | 1503                | 35717           | 6               | 216, 13                  | M5,FS    |
| * 6940         | 113 | 84/04/22                  | 1444:25                  | 1444:43                 | 51              | 76                  |                 | 2               |                          |          |
| * 6941         | 113 | 84/04/22                  | 1712:45                  | 1712:52                 | 21              | 91                  | 252             | 2               |                          |          |
| * 6946         | 115 | 84/04/24                  | 1725:37                  | 1727:20                 | 366             | 8974                | 1.69E+05        | 8               | 216, 15                  | M5,ES,FS |
| * 6947         | 115 | 84/04/24                  | 1802:35                  | 1802:42                 | 26              | 78                  | 215             | 2               |                          |          |
| * 6948         | 115 | 84/04/24                  | 1804:13                  | 1804:17                 | 50              | 124                 | 462             | 2               | 216, 16                  |          |
| * 6949         | 115 | 84/04/24                  | 1906:57                  | 1907:13                 | 168             | 90                  | 717             | 2               |                          |          |
| * 6950         | 115 | 84/04/24                  | 2014:07                  | 2019:04                 | 622             | 1030                | 1.45E+05        | 6               | 217, 1                   | M5,FS    |
| * 6951         | 115 | 84/04/24                  | 2156:08                  | 2157:01                 | 91              | 74                  |                 | 2               |                          |          |
| * 6952         | 115 | 84/04/24                  | 2214:45                  | 2215:12                 | 123             | 92                  | 1361            | 2               |                          |          |
| * 6953         | 115 | 84/04/24                  | 2245:29                  | 2245:40                 | 41              | 79                  | 461             | 2               |                          |          |
| * 6954         | 115 | 84/04/24                  | 2329:29                  | 2330:48                 | 148             | 62                  | 966             | 2               |                          |          |
| * 6955         | 115 | 84/04/24                  | 2352:13                  | 0001:07                 | 13287           | 231300              | 1.49E+08        | 15              | 217, 2                   | M5,EN,IN |
| * 6956         | 116 | 84/04/25                  | 0452:39                  | 0452:57                 | 55              | 71                  | 479             | 2               |                          |          |
| * 6957         | 116 | 84/04/25                  | 0600:09                  | 0601:58                 | 480             | 471                 | 20763           | 7               | 218, 1                   |          |
| * 6958         | 116 | 84/04/25                  | 0613:58                  | 0614:29                 | 54              | 92                  | 1037            | 5               |                          |          |
| * 6959         | 116 | 84/04/25                  | 1101:38                  | 1105:53                 | 397             | 119                 | 5604            | 4               | 218, 2                   |          |
| * 6961         | 116 | 84/04/25                  | 2048:25                  | 2048:51                 | 54              | 62                  | 317             | 2               |                          |          |
| * 6962         | 116 | 84/04/25                  | 2142:53                  | 2143:41                 | 73              | 68                  | 296             | 2               |                          |          |
| * 6963         | 116 | 84/04/25                  | 2307:57                  | 2308:59                 | 200             | 96                  | 2410            | 2               |                          |          |
| * 6964         | 116 | 84/04/25                  | 2331:08                  | 2334:07                 | 310             | 113                 | 4123            | 4               | 218, 3                   |          |
| * 6965         | 116 | 84/04/25                  | 2339:08                  | 2340:50                 | 160             | 72                  | 1621            | 2               |                          |          |
| * 6966         | 117 | 84/04/26                  | 0038:45                  | 0047:35                 | 834             | 903                 | 1.42E+05        | 9               | 218, 4                   |          |
| * 6967         | 117 | 84/04/26                  | 0117:38                  | 0117:57                 | 50              | 89                  |                 | 2               |                          |          |
| * 6968         | 117 | 84/04/26                  | 0121:07                  | 0121:45                 | 63              | 69                  | 221             | 2               |                          |          |
| * 6969         | 117 | 84/04/26                  | 0220:40                  | 0220:53                 | 22              | 311                 | 1759            | 5               | 218, 5                   |          |
| 7453           | 117 | 84/04/26                  | 0531:44                  | 0533:12                 | 128             | 98                  |                 | 2               |                          | I        |
| 7454           | 117 | 84/04/26                  | 0538:23                  | 0538:49                 | 139             | 123                 | 2847            | 2               | 701, 17                  | I        |
| 7491           | 117 | 84/04/26                  | 0724:12                  | 0725:49                 | 174             | 91                  |                 | 2               |                          | I        |
| * 6970         | 117 | 84/04/26                  | 0857:07                  | 0903:38                 | 698             | 3117                | 4.82E+05        | 10              | 218, 6                   | M5,SN,FS |



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| * 6971         | 117 | 84/04/26                  | 1312:28                  | 1312:29                 | 153             | 77                  | 1134            | 2               |                          |       |
| * 6972         | 117 | 84/04/26                  | 1810:33                  | 1811:25                 | 77              | 63                  |                 | 2               |                          |       |
| * 6973         | 117 | 84/04/26                  | 1845:26                  | 1846:08                 | 86              | 89                  |                 | 2               |                          |       |
| * 6974         | 118 | 84/04/27                  | 0013:47                  | 0014:15                 | 116             | 54                  |                 | 2               |                          |       |
| * 6975         | 118 | 84/04/27                  | 0026:56                  | 0027:44                 | 135             | 82                  |                 | 5               |                          |       |
| * 6977         | 118 | 84/04/27                  | 0533:42                  | 0535:08                 | 221             | 553                 | 14566           | 7               | 218, 7                   |       |
| * 6978         | 118 | 84/04/27                  | 0537:56                  | 0539:48                 | 334             | 2624                | 1.59E+05        | 8               | 218, 7                   | M5,FS |
| * 6976         | 118 | 84/04/27                  | 0726:56                  | 0728:37                 | 195             | 88                  |                 | 2               |                          |       |
| * 6979         | 118 | 84/04/27                  | 1423:37                  | 1427:35                 | 578             | 86                  | 4344            | 2               | 218, 8                   | SN    |
| * 6980         | 118 | 84/04/27                  | 1648:36                  | 1653:23                 | 615             | 102                 | 10049           | 2               | 218, 9                   | EN    |
| * 6981         | 118 | 84/04/27                  | 2045:59                  | 2046:06                 | 23              | 64                  |                 | 2               |                          |       |
| * 6982         | 118 | 84/04/27                  | 2049:14                  | 2050:01                 | 104             | 57                  |                 | 2               |                          |       |
| * 6983         | 118 | 84/04/27                  | 2224:24                  | 2224:52                 | 48              | 103                 | 1229            | 7               | 218, 10                  |       |
| * 6984         | 118 | 84/04/27                  | 2225:43                  | 2226:38                 | 97              | 75                  |                 | 7               | 218, 10                  |       |
| * 6985         | 119 | 84/04/28                  | 0437:17                  | 0442:05                 | 645             | 1128                | 24035           | 10              | 218, 11                  |       |
| * 6986         | 119 | 84/04/28                  | 0628:47                  | 0631:37                 | 222             | 120                 | 3470            | 3               | 218, 12                  |       |
| * 6987         | 119 | 84/04/28                  | 0657:32                  | 0658:39                 | 150             | 62                  |                 | 2               |                          |       |
| * 6988         | 119 | 84/04/28                  | 1459:34                  | 1459:50                 | 53              | 65                  |                 | 2               |                          |       |
| * 6989         | 119 | 84/04/28                  | 2056:35                  | 2056:50                 | 102             | 85                  |                 | 2               |                          |       |
| * 6990         | 119 | 84/04/28                  | 2155:01                  | 2155:50                 | 86              | 438                 | 3341            | 4               | 218, 13                  |       |
| * 6991         | 119 | 84/04/28                  | 2200:39                  | 2201:02                 | 43              | 94                  |                 | 2               |                          |       |
| * 6992         | 119 | 84/04/28                  | 2204:20                  | 2205:00                 | 200             | 81                  |                 | 6               |                          |       |
| 7865           | 120 | 84/04/29                  | 0009:43                  | 0010:18                 | 104             | 69                  | 1186            | 2               | 251, 11                  | I     |
| * 6993         | 120 | 84/04/29                  | 0013:14                  | 0014:34                 | 144             | 82                  |                 | 3               |                          |       |
| 7952           | 120 | 84/04/29                  | 0026:01                  | 0026:09                 | 51              | 146                 | 616             | 2               | 251, 12                  | I     |
| * 6994         | 120 | 84/04/29                  | 0243:05                  | 0243:12                 | 22              | 73                  |                 | 2               |                          |       |
| * 6995         | 120 | 84/04/29                  | 0244:53                  | 0245:05                 | 31              | 506                 | 3101            | 4               | 218, 14                  | FS    |
| * 6996         | 120 | 84/04/29                  | 0246:26                  | 0246:49                 | 58              | 333                 | 2747            | 2               | 218, 14                  |       |
| * 6997         | 120 | 84/04/29                  | 0248:34                  | 0248:49                 | 28              | 68                  |                 | 2               | 218, 14                  |       |
| * 6998         | 120 | 84/04/29                  | 0249:20                  | 0249:46                 | 126             | 1161                | 21606           | 5               | 218, 14                  |       |
| * 6999         | 120 | 84/04/29                  | 0411:36                  | 0412:21                 | 134             | 120                 | 2849            | 2               | 218, 15                  |       |
| * 7000         | 120 | 84/04/29                  | 0430:26                  | 0430:33                 | 17              | 101                 | 214             | 2               |                          |       |
| * 7001         | 120 | 84/04/29                  | 0434:11                  | 0434:22                 | 28              | 68                  |                 | 2               |                          |       |
| * 7002         | 120 | 84/04/29                  | 0447:59                  | 0448:09                 | 28              | 77                  |                 | 2               |                          |       |
| * 7003         | 120 | 84/04/29                  | 0451:45                  | 0451:55                 | 20              | 396                 | 1403            | 4               | 218, 16                  |       |
| * 7004         | 120 | 84/04/29                  | 0604:19                  | 0605:53                 | 124             | 190                 | 4766            | 3               | 219, 1                   |       |
| * 7005         | 120 | 84/04/29                  | 0643:38                  | 0644:15                 | 46              | 81                  |                 | 2               |                          |       |
| * 7006         | 120 | 84/04/29                  | 0749:09                  | 0749:40                 | 59              | 69                  |                 | 2               |                          |       |
| 8297           | 120 | 84/04/29                  | 1126:55                  | 1128:32                 | 252             | 65                  | 536             | 2               | 702, 5                   | I ,EN |
| * 7007         | 120 | 84/04/29                  | 1432:34                  | 1433:34                 | 226             | 1200                | 47163           | 5               | 219, 2                   |       |
| 8298           | 120 | 84/04/29                  | 1736:54                  | 1737:03                 | 20              | 668                 | 2231            | 6               | 702, 6                   | I     |
| 8299           | 120 | 84/04/29                  | 1826:23                  | 1826:30                 | 70              | 1552                | 10429           | 6               | 702, 7                   | M ,I  |
| 8300           | 120 | 84/04/29                  | 1852:41                  | 1852:59                 | 103             | 300                 | 4485            | 3               | 702, 8                   | I     |
| * 7008         | 120 | 84/04/29                  | 2054:19                  | 2054:27                 | 20              | 57                  | 164             | 2               |                          |       |
| 8301           | 120 | 84/04/29                  | 2136:36                  | 2138:02                 | 385             | 616                 | 57334           | 15              | 702, 9                   | I     |
| 8302           | 120 | 84/04/29                  | 2312:19                  | 2318:40                 | 571             | 126                 | 10617           | 3               | 702, 10                  | I     |
| 8303           | 120 | 84/04/29                  | 2347:15                  | 2351:31                 | 1118            | 55                  | 3369            | 2               | 702, 14                  | I ,EN |
| * 7009         | 120 | 84/04/29                  | 2357:29                  | 2358:24                 | 85              | 62                  | 385             | 2               |                          |       |
| * 7010         | 121 | 84/04/30                  | 0043:26                  | 0044:33                 | 122             | 76                  | 371             | 2               |                          |       |
| * 7011         | 121 | 84/04/30                  | 0227:26                  | 0227:36                 | 92              | 76                  | 333             | 2               |                          |       |
| * 7012         | 121 | 84/04/30                  | 0547:06                  | 0547:25                 | 141             | 65                  | 1104            | 2               |                          |       |
| * 7013         | 121 | 84/04/30                  | 0555:54                  | 0557:08                 | 94              | 72                  | 476             | 2               |                          |       |
| 8304           | 121 | 84/04/30                  | 0618:39                  | 0622:30                 | 274             | 73                  | 2196            | 2               | 702, 12                  | I     |
| * 7014         | 121 | 84/04/30                  | 1051:14                  | 1051:37                 | 102             | 65                  | 480             | 2               |                          |       |
| * 7015         | 121 | 84/04/30                  | 1542:40                  | 1544:05                 | 104             | 149                 | 2430            | 3               | 219, 3                   |       |
| * 7016         | 121 | 84/04/30                  | 2018:06                  | 2018:31                 | 80              | 117                 | 1691            | 5               | 219, 4                   |       |
| * 7017         | 121 | 84/04/30                  | 2109:03                  | 2109:36                 | 133             | 193                 | 2558            | 3               | 219, 5                   |       |
| * 7018         | 121 | 84/04/30                  | 2147:03                  | 2147:09                 | 36              | 64                  | 355             | 2               |                          |       |
| * 7019         | 121 | 84/04/30                  | 2249:42                  | 2253:15                 | 499             | 115                 | 10686           | 7               | 219, 6                   | AX    |
| * 7020         | 122 | 84/05/01                  | 0019:49                  | 0022:05                 | 178             | 76                  | 928             | 2               |                          |       |
| * 7021         | 122 | 84/05/01                  | 0023:28                  | 0024:02                 | 78              | 65                  | 616             | 2               |                          |       |
| * 7022         | 122 | 84/05/01                  | 0029:15                  | 0030:22                 | 136             | 89                  | 1010            | 2               |                          |       |
| * 7023         | 122 | 84/05/01                  | 0045:49                  | 0046:44                 | 122             | 124                 | 3238            | 2               | 219, 7                   |       |
| * 7024         | 122 | 84/05/01                  | 0102:50                  | 0112:46                 | 842             | 208                 | 48594           | 5               | 219, 7                   |       |
| * 7025         | 122 | 84/05/01                  | 1800:26                  | 1800:54                 | 54              | 203                 | 1735            | 4               | 219, 8                   |       |
| * 7026         | 122 | 84/05/01                  | 1947:51                  | 1948:05                 | 32              | 61                  | 174             | 2               |                          |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| * 7027         | 123 | 84/05/02                  | 1614:15                  | 1614:16                 | 179             | 97                  | 2775            | 2               |                          |          |
| * 7028         | 123 | 84/05/02                  | 1913:13                  | 1920:28                 | 2034            | 2457                | 8.06E+05        | 10              | 219, 10                  | M ,EN    |
| * 7029         | 123 | 84/05/02                  | 2241:49                  | 2242:20                 | 41              | 70                  |                 | 3               |                          |          |
| * 7030         | 124 | 84/05/03                  | 0023:14                  | 0023:44                 | 107             | 76                  |                 | 4               |                          |          |
| * 7031         | 124 | 84/05/03                  | 0115:20                  | 0115:51                 | 105             | 76                  |                 | 4               |                          |          |
| * 7032         | 124 | 84/05/03                  | 0141:51                  | 0141:58                 | 20              | 71                  |                 | 2               |                          |          |
| * 7033         | 124 | 84/05/03                  | 0244:24                  | 0244:39                 | 171             | 76                  |                 | 2               |                          |          |
| * 7034         | 124 | 84/05/03                  | 0312:24                  | 0317:06                 | 715             | 340                 | 22362           | 3               | 219, 9                   |          |
| * 7035         | 124 | 84/05/03                  | 0328:05                  | 0328:28                 | 30              | 63                  |                 | 2               |                          |          |
| 8306           | 124 | 84/05/03                  | 2133:41                  | 2134:39                 | 725             | 705                 | 46296           | 10              | 703, 12                  | I ,EN    |
| 7036           | 124 | 84/05/03                  | 2218:36                  | 2219:19                 | 142             | 79                  | 1378            | 9               |                          | AX       |
| 7037           | 124 | 84/05/03                  | 2310:54                  | 2312:15                 | 469             | 97                  | 6994            | 6               | 219, 11                  | AX       |
| 7038           | 124 | 84/05/03                  | 2358:13                  | 2359:02                 | 200             | 78                  | 2180            | 4               |                          | AX       |
| 8308           | 125 | 84/05/04                  | 0136:55                  | 0137:17                 | 43              | 50                  | 1333            | 2               | 702, 15                  | I        |
| 8309           | 125 | 84/05/04                  | 0139:03                  | 0139:09                 | 13              | 93                  | 912             | 3               | 702, 16                  | I        |
| 7039           | 125 | 84/05/04                  | 0605:13                  | 0605:46                 | 141             | 736                 | 14307           | 7               | 219, 12                  | FS       |
| 7040           | 125 | 84/05/04                  | 0857:52                  | 0858:40                 | 155             | 85                  | 1086            | 2               |                          |          |
| 7041           | 125 | 84/05/04                  | 1649:11                  | 1651:18                 | 166             | 63                  | 579             | 2               |                          |          |
| 7042           | 125 | 84/05/04                  | 1709:04                  | 1709:58                 | 126             | 61                  | 296             | 2               |                          |          |
| 7043           | 125 | 84/05/04                  | 2033:59                  | 2034:36                 | 72              | 63                  |                 | 2               |                          |          |
| 7044           | 125 | 84/05/04                  | 2331:47                  | 2334:39                 | 359             | 108                 | 8126            | 5               | 219, 13                  |          |
| 7045           | 125 | 84/05/04                  | 2341:30                  | 2343:07                 | 160             | 132                 | 6092            | 2               | 219, 13                  |          |
| 7046           | 126 | 84/05/05                  | 0105:24                  | 0106:42                 | 173             | 803                 | 31143           | 4               | 219, 14                  |          |
| 7047           | 126 | 84/05/05                  | 0357:41                  | 0358:13                 | 197             | 63                  |                 | 2               |                          |          |
| 7048           | 126 | 84/05/05                  | 0421:16                  | 0421:32                 | 49              | 74                  |                 | 2               |                          |          |
| 7049           | 126 | 84/05/05                  | 0841:09                  | 0842:07                 | 142             | 73                  |                 | 2               |                          |          |
| 7050           | 126 | 84/05/05                  | 0849:01                  | 0849:49                 | 168             | 80                  |                 | 2               |                          |          |
| 7051           | 126 | 84/05/05                  | 0901:39                  | 0903:00                 | 164             | 73                  |                 | 2               |                          |          |
| 7052           | 126 | 84/05/05                  | 0905:04                  | 0905:44                 | 172             | 84                  |                 | 2               |                          |          |
| 8310           | 126 | 84/05/05                  | 1148:24                  | 1153:34                 | 1822            | 915                 | 9.87E+05        | 5               | 702, 17                  | I        |
| 8311           | 126 | 84/05/05                  | 1342:57                  | 1343:23                 | 83              | 59                  | 4078            | 2               | 702, 18                  | I        |
| 7053           | 126 | 84/05/05                  | 1612:25                  | 1612:38                 | 35              | 65                  |                 | 2               |                          |          |
| 7054           | 126 | 84/05/05                  | 1616:02                  | 1616:21                 | 181             | 1120                | 27123           | 4               | 219, 15                  |          |
| 7055           | 126 | 84/05/05                  | 1801:31                  | 1802:21                 | 115             | 83                  |                 | 2               | 219, 16                  |          |
| 7056           | 126 | 84/05/05                  | 1808:24                  | 1814:43                 | 1780            | 17630               | 6.61E+06        | 15              | 220, 1                   | M ,EN,FS |
| 7057           | 126 | 84/05/05                  | 1925:44                  | 1925:55                 | 121             | 197                 | 9200            | 3               | 220, 1                   |          |
| 7058           | 126 | 84/05/05                  | 2249:46                  | 2251:25                 | 99              | 59                  |                 | 3               |                          |          |
| 7059           | 127 | 84/05/06                  | 0012:21                  | 0012:33                 | 36              | 81                  |                 | 2               |                          |          |
| 7060           | 127 | 84/05/06                  | 0131:27                  | 0132:54                 | 286             | 317                 | 15452           | 3               | 220, 2                   |          |
| 7061           | 127 | 84/05/06                  | 0142:52                  | 0144:08                 | 256             | 384                 | 10594           | 3               | 220, 2                   |          |
| 7062           | 127 | 84/05/06                  | 0218:51                  | 0219:12                 | 47              | 125                 | 926             | 2               | 220, 3                   |          |
| 7063           | 127 | 84/05/06                  | 0458:52                  | 0459:18                 | 70              | 74                  |                 | 2               |                          |          |
| 7064           | 127 | 84/05/06                  | 0821:52                  | 0822:23                 | 266             | 369                 | 8760            | 2               | 220, 4                   |          |
| 7065           | 127 | 84/05/06                  | 1624:21                  | 1624:34                 | 120             | 1652                | 13758           | 10              | 220, 5                   | FS       |
| 7066           | 127 | 84/05/06                  | 1807:37                  | 1808:03                 | 237             | 299                 | 4491            | 5               | 220, 6                   |          |
| 7067           | 127 | 84/05/06                  | 1902:38                  | 1904:05                 | 175             | 589                 | 19390           | 7               | 220, 7                   |          |
| 7068           | 127 | 84/05/06                  | 1909:52                  | 1910:01                 | 47              | 61                  | 230             | 2               |                          |          |
| 7069           | 127 | 84/05/06                  | 1936:16                  | 1936:21                 | 21              | 118                 | 261             | 2               | 220, 8                   |          |
| 7070           | 127 | 84/05/06                  | 2119:46                  | 2119:59                 | 22              | 70                  | 113             | 2               |                          |          |
| 7071           | 128 | 84/05/07                  | 0120:39                  | 0120:56                 | 66              | 306                 | 3106            | 5               | 220, 9                   |          |
| 7072           | 128 | 84/05/07                  | 0316:59                  | 0317:25                 | 39              | 220                 | 1907            | 4               | 220, 10                  |          |
| 7073           | 128 | 84/05/07                  | 0427:15                  | 0428:51                 | 153             | 77                  | 1725            | 2               |                          |          |
| 7074           | 128 | 84/05/07                  | 0611:26                  | 0611:49                 | 72              | 76                  | 578             | 2               |                          |          |
| 7075           | 128 | 84/05/07                  | 0623:25                  | 0624:01                 | 101             | 83                  | 888             | 2               |                          |          |
| 7076           | 128 | 84/05/07                  | 1436:35                  | 1436:56                 | 52              | 70                  | 357             | 2               |                          |          |
| 7077           | 128 | 84/05/07                  | 1520:47                  | 1521:43                 | 128             | 91                  | 1097            | 3               |                          |          |
| 7078           | 129 | 84/05/08                  | 0748:59                  | 0749:23                 | 92              | 75                  | 542             | 2               |                          | SN       |
| 7082           | 129 | 84/05/08                  | 1229:09                  | 1229:41                 | 47              | 77                  | 584             | 2               |                          |          |
| 7083           | 129 | 84/05/08                  | 1456:03                  | 1456:25                 | 108             | 189                 | 2538            | 3               | 220, 12                  |          |
| 7084           | 130 | 84/05/09                  | 0046:54                  | 0047:04                 | 56              | 67                  | 467             | 2               |                          |          |
| 7085           | 130 | 84/05/09                  | 0533:37                  | 0533:59                 | 37              | 79                  | 426             | 2               |                          |          |
| 7086           | 130 | 84/05/09                  | 0838:11                  | 0838:53                 | 135             | 77                  | 135             | 2               |                          |          |
| 7087           | 130 | 84/05/09                  | 1505:18                  | 1505:20                 | 4               | 116                 | 164             | 3               | 220, 13                  |          |
| 7088           | 130 | 84/05/09                  | 1515:03                  | 1515:11                 | 20              | 96                  |                 | 2               |                          |          |
| 7089           | 130 | 84/05/09                  | 1529:07                  | 1529:28                 | 56              | 336                 | 5520            | 3               | 220, 14                  |          |
| 7090           | 130 | 84/05/09                  | 1606:33                  | 1606:44                 | 129             | 65                  | 467             | 2               |                          |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 7091           | 131 | 84/05/10                  | 0148:56                  | 0149:33                 | 60              | 73                  | 2559            | 2               |                          |       |
| 7092           | 131 | 84/05/10                  | 0206:53                  | 0207:50                 | 83              | 67                  | 369             | 2               |                          |       |
| 7093           | 131 | 84/05/10                  | 0319:08                  | 0319:48                 | 165             | 270                 | 8503            | 4               | 220, 15                  |       |
| 7094           | 131 | 84/05/10                  | 0640:41                  | 0641:43                 | 96              | 74                  | 535             | 2               |                          |       |
| 7097           | 131 | 84/05/10                  | 0957:41                  | 0958:11                 | 51              | 68                  |                 | 2               |                          |       |
| 7098           | 131 | 84/05/10                  | 1301:50                  | 1302:25                 | 72              | 75                  |                 | 2               |                          |       |
| 7099           | 131 | 84/05/10                  | 1308:14                  | 1308:45                 | 61              | 72                  |                 | 2               |                          |       |
| 7100           | 131 | 84/05/10                  | 1422:06                  | 1422:35                 | 53              | 61                  |                 | 2               |                          |       |
| 7101           | 131 | 84/05/10                  | 1459:33                  | 1459:58                 | 78              | 64                  |                 | 2               |                          |       |
| 7102           | 131 | 84/05/10                  | 1550:11                  | 1552:22                 | 306             | 145                 | 7390            | 2               | 221, 1                   |       |
| 7306           | 131 | 84/05/10                  | 1720:40                  | 1722:22                 | 1108            | 13460               | 1.07E+06        | 15              | 226, 1                   | I     |
| 7103           | 131 | 84/05/10                  | 1750:33                  | 1751:28                 | 202             | 5739                | 84976           | 9               | 221, 2                   | FS    |
| 7104           | 131 | 84/05/10                  | 2051:22                  | 2051:38                 | 46              | 58                  | 281             | 2               |                          |       |
| 7105           | 132 | 84/05/11                  | 0435:30                  | 0435:43                 | 43              | 86                  | 547             | 3               |                          |       |
| 7109           | 132 | 84/05/11                  | 1523:12                  | 1523:12                 | 50              | 96                  | 786             | 3               | 221, 4                   |       |
| 7110           | 132 | 84/05/11                  | 1524:24                  | 1525:13                 | 183             | 570                 | 17265           | 4               | 221, 4                   | FS    |
| 7111           | 132 | 84/05/11                  | 2034:22                  | 2035:03                 | 641             | 503                 | 52958           | 3               | 221, 5                   |       |
| 7112           | 132 | 84/05/11                  | 2050:37                  | 2050:56                 | 165             | 411                 | 7030            | 3               | 221, 5                   |       |
| 7113           | 133 | 84/05/12                  | 0004:31                  | 0004:53                 | 42              | 119                 | 4419            | 2               | 221, 6                   |       |
| 7114           | 133 | 84/05/12                  | 0316:35                  | 0316:51                 | 27              | 72                  |                 | 2               |                          |       |
| 7115           | 133 | 84/05/12                  | 0414:25                  | 0414:47                 | 39              | 74                  |                 | 2               |                          |       |
| 7116           | 133 | 84/05/12                  | 0444:20                  | 0444:38                 | 33              | 72                  |                 | 2               |                          |       |
| 7117           | 133 | 84/05/12                  | 0540:36                  | 0541:04                 | 65              | 69                  |                 | 2               |                          |       |
| 7118           | 133 | 84/05/12                  | 0542:14                  | 0542:22                 | 46              | 71                  |                 | 2               |                          |       |
| 7119           | 133 | 84/05/12                  | 0549:17                  | 0549:44                 | 49              | 79                  |                 | 2               |                          |       |
| 7120           | 133 | 84/05/12                  | 0900:49                  | 0901:27                 | 99              | 96                  |                 | 2               |                          |       |
| 7121           | 133 | 84/05/12                  | 1538:00                  | 1538:09                 | 41              | 74                  |                 | 2               |                          |       |
| 7122           | 133 | 84/05/12                  | 1655:04                  | 1655:19                 | 48              | 68                  |                 | 2               |                          |       |
| 7123           | 133 | 84/05/12                  | 1655:53                  | 1656:27                 | 54              | 89                  |                 | 2               |                          |       |
| 7124           | 133 | 84/05/12                  | 2206:00                  | 2206:07                 | 29              | 66                  |                 | 2               |                          |       |
| 7125           | 133 | 84/05/12                  | 2301:35                  | 2301:40                 | 70              | 61                  |                 | 2               | 221, 7                   |       |
| 7126           | 133 | 84/05/12                  | 2304:39                  | 2305:48                 | 546             | 129                 | 10875           | 2               | 221, 7                   |       |
| 7127           | 134 | 84/05/13                  | 0039:49                  | 0040:40                 | 102             | 163                 | 3695            | 3               | 221, 8                   |       |
| 7128           | 134 | 84/05/13                  | 1012:57                  | 1013:30                 | 76              | 98                  |                 | 2               |                          |       |
| 7129           | 134 | 84/05/13                  | 1142:57                  | 1143:04                 | 33              | 93                  |                 | 2               |                          |       |
| 7130           | 134 | 84/05/13                  | 1442:06                  | 1443:07                 | 103             | 79                  | 333             | 2               |                          |       |
| 7131           | 134 | 84/05/13                  | 1747:50                  | 1748:36                 | 110             | 82                  | 948             | 2               |                          |       |
| 7132           | 134 | 84/05/13                  | 1755:38                  | 1755:53                 | 87              | 89                  | 777             | 2               |                          |       |
| 7133           | 134 | 84/05/13                  | 1832:48                  | 1833:42                 | 159             | 79                  | 695             | 2               |                          |       |
| 7134           | 134 | 84/05/13                  | 2114:18                  | 2114:44                 | 53              | 75                  | 269             | 2               |                          |       |
| 7135           | 135 | 84/05/14                  | 1545:13                  | 1545:41                 | 76              | 60                  |                 | 2               |                          |       |
| 7136           | 135 | 84/05/14                  | 1809:28                  | 1810:12                 | 111             | 67                  | 609             | 2               |                          |       |
| 7137           | 135 | 84/05/14                  | 1813:00                  | 1813:22                 | 166             | 73                  | 7709            | 2               |                          |       |
| 7138           | 135 | 84/05/14                  | 2214:17                  | 2215:33                 | 528             | 121                 | 9510            | 3               | 221, 9                   |       |
| 7140           | 136 | 84/05/15                  | 0933:14                  | 0933:40                 | 149             | 65                  | 401             | 2               |                          |       |
| 7141           | 137 | 84/05/16                  | 1209:17                  | 1210:05                 | 77              | 67                  | 468             | 2               |                          |       |
| 8314           | 138 | 84/05/17                  | 1334:56                  | 1335:00                 | 12              | 95                  | 687             | 3               | 702, 19                  | I     |
| 8315           | 138 | 84/05/17                  | 1342:10                  | 1343:25                 | 80              | 113                 | 4690            | 3               | 703, 1                   | I     |
| 8316           | 138 | 84/05/17                  | 1352:37                  | 1354:10                 | 209             | 69                  | 10598           | 3               | 703, 2                   | I     |
| 7143           | 138 | 84/05/17                  | 1440:58                  | 1441:17                 | 320             | 203                 | 6814            | 3               | 221, 11                  |       |
| 7144           | 138 | 84/05/17                  | 1528:15                  | 1529:48                 | 129             | 78                  |                 | 2               |                          |       |
| 7145           | 138 | 84/05/17                  | 1656:55                  | 1657:04                 | 14              | 68                  |                 | 2               |                          |       |
| 7146           | 138 | 84/05/17                  | 1749:52                  | 1750:11                 | 61              | 99                  |                 | 2               |                          |       |
| 7147           | 138 | 84/05/17                  | 1819:43                  | 1820:33                 | 80              | 147                 | 1863            | 2               | 221, 12                  |       |
| 7148           | 138 | 84/05/17                  | 1824:25                  | 1824:45                 | 57              | 106                 | 839             | 2               | 221, 12                  |       |
| 7149           | 138 | 84/05/17                  | 1826:24                  | 1826:35                 | 35              | 70                  |                 | 2               | 221, 12                  |       |
| 7150           | 138 | 84/05/17                  | 1836:52                  | 1837:47                 | 139             | 207                 | 8134            | 3               | 221, 13                  |       |
| 7151           | 138 | 84/05/17                  | 2116:43                  | 2117:02                 | 282             | 1074                | 14179           | 6               | 221, 14                  | FS    |
| 8317           | 139 | 84/05/18                  | 0402:17                  | 0402:31                 | 117             | 96                  | 6810            | 2               | 703, 3                   | I     |
| 8318           | 139 | 84/05/18                  | 0534:24                  | 0534:31                 | 20              | 632                 | 5778            | 8               | 703, 4                   | I     |
| 7152           | 139 | 84/05/18                  | 0706:08                  | 0706:31                 | 65              | 124                 | 1586            | 2               | 221, 15                  |       |
| 7153           | 139 | 84/05/18                  | 0831:19                  | 0831:27                 | 36              | 72                  |                 | 2               |                          |       |
| 7154           | 139 | 84/05/18                  | 0933:05                  | 0937:05                 | 415             | 248                 | 27500           | 5               | 221, 16                  |       |
| 7155           | 139 | 84/05/18                  | 0944:06                  | 0944:44                 | 94              | 60                  |                 | 2               |                          |       |
| 8319           | 139 | 84/05/18                  | 1116:45                  | 1116:50                 | 8               | 96                  | 505             | 3               | 703, 5                   | I     |
| 8320           | 139 | 84/05/18                  | 1151:32                  | 1151:48                 | 39              | 104                 | 2016            | 3               | 703, 6                   | I     |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS       |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------|
| 8321           | 139 | 84/05/18                  | 1158:14                  | 1159:53                 | 192             | 64                  | 9730            | 2               | 703, 7                   | I           |
| 7158           | 139 | 84/05/18                  | 1300:32                  | 1301:03                 | 145             | 166                 | 2488            | 3               | 222, 1                   |             |
| 7159           | 139 | 84/05/18                  | 1306:10                  | 1308:02                 | 558             | 482                 | 63942           | 4               | 222, 1                   |             |
| 7160           | 139 | 84/05/18                  | 1412:52                  | 1413:20                 | 133             | 63                  | 448             | 2               |                          | SN          |
| 7161           | 139 | 84/05/18                  | 1428:56                  | 1429:59                 | 135             | 85                  | 1392            | 6               |                          | AX          |
| 7162           | 139 | 84/05/18                  | 1456:06                  | 1457:05                 | 84              | 73                  | 726             | 2               |                          |             |
| 7163           | 139 | 84/05/18                  | 1606:59                  | 1607:39                 | 165             | 82                  | 2001            | 5               |                          | AX          |
| 7164           | 139 | 84/05/18                  | 1612:51                  | 1613:07                 | 111             | 119                 | 747             | 3               | 222, 2                   |             |
| 7165           | 139 | 84/05/18                  | 2053:40                  | 2054:04                 | 150             | 154                 | 2374            | 2               | 222, 3                   |             |
| 7166           | 140 | 84/05/19                  | 0305:09                  | 0306:39                 | 140             | 114                 | 1774            | 2               | 222, 4                   |             |
| 7167           | 140 | 84/05/19                  | 0309:29                  | 0310:50                 | 104             | 80                  |                 | 2               |                          |             |
| 7168           | 140 | 84/05/19                  | 0423:55                  | 0424:12                 | 30              | 69                  |                 | 2               |                          |             |
| 7169           | 140 | 84/05/19                  | 0603:55                  | 0604:44                 | 103             | 112                 | 2015            | 2               | 222, 5                   |             |
| 7170           | 140 | 84/05/19                  | 0737:59                  | 0738:58                 | 108             | 72                  |                 | 2               |                          |             |
| 7171           | 140 | 84/05/19                  | 0747:27                  | 0748:23                 | 274             | 2409                | 85398           | 6               | 222, 6                   | FS          |
| 7172           | 140 | 84/05/19                  | 1544:59                  | 1545:43                 | 56              | 89                  |                 | 2               |                          |             |
| 7173           | 140 | 84/05/19                  | 1729:30                  | 1730:20                 | 123             | 300                 | 5918            | 3               | 222, 7                   |             |
| 7174           | 140 | 84/05/19                  | 2021:30                  | 2021:59                 | 59              | 68                  |                 | 2               |                          |             |
| 7175           | 140 | 84/05/19                  | 2030:43                  | 2031:20                 | 52              | 72                  |                 | 2               | 222, 8                   |             |
| 7176           | 140 | 84/05/19                  | 2033:33                  | 2038:08                 | 995             | 91                  | 10047           | 2               | 222, 8                   |             |
| 7177           | 140 | 84/05/19                  | 2150:17                  | 2152:25                 | 1720            | 193700              | 3.50E+07        | 15              | 222, 9                   | M           |
| 7178           | 140 | 84/05/19                  | 2219:14                  | 2219:34                 | 84              | 93                  |                 | 2               | 222, 9                   |             |
| 7179           | 140 | 84/05/19                  | 2341:38                  | 2342:55                 | 280             | 3256                | 71273           | 9               | 222, 10                  | M ,FS       |
| 7180           | 141 | 84/05/20                  | 0100:13                  | 0100:32                 | 54              | 74                  |                 | 2               |                          |             |
| 7181           | 141 | 84/05/20                  | 0103:52                  | 0104:13                 | 58              | 80                  |                 | 2               |                          |             |
| 7182           | 141 | 84/05/20                  | 0111:46                  | 0112:35                 | 149             | 136                 | 3929            | 2               | 222, 12                  |             |
| 7295           | 141 | 84/05/20                  | 0125:26                  | 0126:37                 | 628             | 2723                | 3.78E+05        | 10              | 225, 10                  | M           |
| 7183           | 141 | 84/05/20                  | 0249:41                  | 0251:33                 | 268             | 324                 | 22139           | 3               | 222, 13                  |             |
| 7184           | 141 | 84/05/20                  | 0256:03                  | 0300:28                 | 1189            | 6859                | 7.74E+05        | 10              | 222, 13                  | M ,FS       |
| 7185           | 141 | 84/05/20                  | 0404:25                  | 0406:28                 | 307             | 354                 | 30196           | 3               | 222, 14                  |             |
| 7186           | 141 | 84/05/20                  | 0432:12                  | 0432:30                 | 56              | 110                 | 1041            | 2               | 222, 15                  |             |
| 7187           | 141 | 84/05/20                  | 0443:39                  | 0445:21                 | 177             | 75                  |                 | 2               |                          |             |
| 7188           | 141 | 84/05/20                  | 0539:16                  | 0541:26                 | 540             | 5530                | 7.17E+05        | 9               | 222, 16                  | M ,SA       |
| 7189           | 141 | 84/05/20                  | 0603:53                  | 0606:02                 | 168             | 75                  |                 | 2               |                          |             |
| 7190           | 141 | 84/05/20                  | 0617:36                  | 0619:35                 | 276             | 1440                | 59095           | 11              | 223, 2                   |             |
| 7191           | 141 | 84/05/20                  | 0714:00                  | 0714:08                 | 15              | 55                  |                 | 2               |                          |             |
| 7192           | 141 | 84/05/20                  | 0715:20                  | 0716:06                 | 64              | 72                  |                 | 2               |                          |             |
| 7193           | 141 | 84/05/20                  | 0757:09                  | 0758:32                 | 158             | 115                 | 2319            | 2               | 223, 3                   |             |
| 7194           | 141 | 84/05/20                  | 0856:09                  | 0858:23                 | 619             | 152                 | 23055           | 2               | 223, 4                   |             |
| 7195           | 141 | 84/05/20                  | 1017:20                  | 1019:59                 | 364             | 201                 | 8993            | 3               | 223, 5                   |             |
| 7196           | 141 | 84/05/20                  | 1114:37                  | 1115:03                 | 55              | 107                 | 1334            | 2               | 223, 6                   |             |
| 7197           | 141 | 84/05/20                  | 1151:49                  | 1152:38                 | 83              | 57                  |                 | 2               |                          |             |
| 7198           | 141 | 84/05/20                  | 1153:53                  | 1154:54                 | 113             | 66                  |                 | 2               |                          |             |
| 7199           | 141 | 84/05/20                  | 1228:07                  | 1228:39                 | 87              | 63                  |                 | 2               |                          |             |
| 7200           | 141 | 84/05/20                  | 1233:23                  | 1233:51                 | 47              | 196                 | 1336            | 3               | 223, 7                   |             |
| 7201           | 141 | 84/05/20                  | 1332:14                  | 1335:46                 | 602             | 621                 | 67805           | 6               | 223, 8                   |             |
| 7202           | 141 | 84/05/20                  | 1513:26                  | 1514:02                 | 527             | 2958                | 79356           | 7               | 223, 10                  | M ,FS       |
| 7203           | 141 | 84/05/20                  | 1638:16                  | 1638:47                 | 66              | 83                  |                 | 2               |                          |             |
| 7204           | 141 | 84/05/20                  | 1944:09                  | 1944:24                 | 67              | 108                 | 1062            | 2               | 223, 11                  |             |
| 7205           | 141 | 84/05/20                  | 2014:56                  | 2015:22                 | 60              | 63                  |                 | 2               |                          |             |
| 7206           | 141 | 84/05/20                  | 2018:26                  | 2019:12                 | 99              | 357                 | 4423            | 4               | 223, 12                  |             |
| 7207           | 141 | 84/05/20                  | 2122:20                  | 2122:27                 | 26              | 106                 | 355             | 3               | 223, 13                  |             |
| 7208           | 141 | 84/05/20                  | 2153:01                  | 2153:37                 | 200             | 14690               | 1.91E+05        | 15              | 223, 14                  | M ,FS       |
| 7209           | 141 | 84/05/20                  | 2253:11                  | 2253:21                 | 1972            | 223                 | 52611           | 2               | 223, 15                  | SN          |
| 7210           | 142 | 84/05/21                  | 0032:30                  | 0032:38                 | 15              | 87                  | 189             | 2               |                          |             |
| 7216           | 142 | 84/05/21                  | 0216:12                  | 0216:40                 | 37              | 88                  |                 | 2               |                          |             |
| 7211           | 142 | 84/05/21                  | 0219:19                  | 0219:43                 | 1102            | 23650               | 1.86E+06        | 7               | 223, 16                  | SG,EG,DG,ND |
| 7212           | 142 | 84/05/21                  | 0410:55                  | 0411:33                 | 74              | 73                  | 393             | 2               |                          |             |
| 8322           | 142 | 84/05/21                  | 0515:41                  | 0515:50                 | 17              | 107                 | 893             | 3               | 703, 8                   | I           |
| 8323           | 142 | 84/05/21                  | 0535:06                  | 0535:08                 | 6               | 194                 | 578             | 3               | 703, 9                   | I           |
| 7213           | 142 | 84/05/21                  | 0819:50                  | 0820:01                 | 18              | 66                  | 130             | 2               |                          |             |
| 7214           | 142 | 84/05/21                  | 0822:46                  | 0822:57                 | 28              | 90                  | 488             | 2               |                          |             |
| 7215           | 142 | 84/05/21                  | 0844:24                  | 0844:31                 | 41              | 92                  | 435             | 2               |                          |             |
| 7217           | 142 | 84/05/21                  | 1313:58                  | 1314:36                 | 123             | 118                 | 2587            | 6               | 224, 1                   |             |
| 7218           | 142 | 84/05/21                  | 1325:09                  | 1326:38                 | 615             | 1544                | 49793           | 7               | 224, 2                   | FS          |
| 7219           | 142 | 84/05/21                  | 1400:11                  | 1400:25                 | 28              | 82                  |                 | 2               |                          |             |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS     |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-----------|
| 7220           | 142 | 84/05/21                  | 1613:08                  | 1620:47                 | 672             | 632                 | 1.29E+05        | 3               | 224, 3                   | EG        |
| 7221           | 142 | 84/05/21                  | 1632:15                  | 1632:19                 | 81              | 114                 | 1568            | 2               | 224, 3                   | SG        |
| 7222           | 142 | 84/05/21                  | 1641:00                  | 1645:59                 | 347             | 176                 | 5014            | 3               | 224, 3                   |           |
| 7224           | 142 | 84/05/21                  | 1746:33                  | 1746:44                 | 258             | 414                 | 12617           | 7               | 224, 4                   | SN        |
| 7225           | 142 | 84/05/21                  | 1757:34                  | 1805:37                 | 1365            | 1286                | 2.59E+05        | 7               | 224, 4                   |           |
| 7226           | 142 | 84/05/21                  | 1938:29                  | 1938:52                 | 188             | 88                  | 716             | 2               |                          |           |
| 8324           | 142 | 84/05/21                  | 1949:35                  | 1957:45                 | 778             | 92                  | 42215           | 2               | 703, 10                  | I         |
| 7228           | 143 | 84/05/22                  | 0505:18                  | 0505:38                 | 42              | 118                 | 674             | 3               | 224, 5                   |           |
| 7229           | 143 | 84/05/22                  | 0506:02                  | 0506:10                 | 23              | 181                 | 704             | 5               | 224, 5                   |           |
| 8326           | 143 | 84/05/22                  | 0629:50                  | 0631:25                 | 746             | 653                 | 1.51E+05        | 9               | 703, 13                  | I         |
| 7227           | 143 | 84/05/22                  | 1112:59                  | 1113:52                 | 100             | 89                  | 1230            | 3               |                          |           |
| 7230           | 143 | 84/05/22                  | 1425:32                  | 1425:49                 | 69              | 84                  | 761             | 2               |                          |           |
| 7231           | 143 | 84/05/22                  | 1430:26                  | 1431:55                 | 198             | 95                  |                 | 5               |                          | ND        |
| 7232           | 143 | 84/05/22                  | 1452:07                  | 1457:01                 | 1204            | 8748                | 1.72E+06        | 15              | 224, 6                   | M, EN, FS |
| 7233           | 143 | 84/05/22                  | 1557:39                  | 1557:54                 | 51              | 66                  |                 | 2               |                          |           |
| 7234           | 143 | 84/05/22                  | 1603:45                  | 1603:54                 | 67              | 77                  |                 | 2               |                          |           |
| 7235           | 143 | 84/05/22                  | 1744:07                  | 1744:12                 | 13              | 93                  |                 | 2               |                          |           |
| 7236           | 144 | 84/05/23                  | 0143:19                  | 0143:38                 | 31              | 99                  |                 | 3               |                          |           |
| 7237           | 144 | 84/05/23                  | 0256:23                  | 0256:47                 | 71              | 128                 | 1426            | 2               | 224, 7                   |           |
| 7238           | 144 | 84/05/23                  | 0509:17                  | 0511:12                 | 504             | 5875                | 2.18E+05        | 8               | 224, 8                   | M         |
| 7239           | 144 | 84/05/23                  | 0603:36                  | 0603:47                 | 36              | 63                  |                 | 3               |                          |           |
| 7240           | 144 | 84/05/23                  | 1122:04                  | 1122:36                 | 51              | 99                  | 1002            | 3               |                          |           |
| 7241           | 144 | 84/05/23                  | 1216:38                  | 1217:28                 | 231             | 170                 | 6143            | 3               | 224, 9                   |           |
| 7242           | 144 | 84/05/23                  | 1252:43                  | 1253:37                 | 139             | 76                  | 965             | 2               |                          |           |
| 7243           | 144 | 84/05/23                  | 2345:15                  | 2346:24                 | 419             | 175                 | 12366           | 3               | 224, 10                  |           |
| 7249           | 145 | 84/05/24                  | 0537:38                  | 0537:51                 | 37              | 186                 | 3523            | 3               | 703, 17                  | I         |
| 8329           | 145 | 84/05/24                  | 0550:17                  | 0550:55                 | 136             | 75                  | 7055            | 2               | 703, 14                  | I         |
| 7250           | 145 | 84/05/24                  | 1246:53                  | 1247:31                 | 185             | 284                 | 6408            | 4               | 224, 13                  |           |
| 7251           | 145 | 84/05/24                  | 1409:09                  | 1409:22                 | 65              | 61                  |                 | 2               |                          |           |
| 7252           | 146 | 84/05/25                  | 0223:05                  | 0223:17                 | 22              | 79                  |                 | 2               |                          |           |
| 7269           | 146 | 84/05/25                  | 0421:19                  | 0423:06                 | 161             | 614                 | 6352            | 6               | 224, 15                  | FS        |
| 7270           | 146 | 84/05/25                  | 0424:25                  | 0425:22                 | 131             | 166                 | 3380            | 3               | 224, 15                  |           |
| 7271           | 146 | 84/05/25                  | 0715:43                  | 0715:52                 | 16              | 69                  | 121             | 3               |                          |           |
| 7272           | 146 | 84/05/25                  | 0838:37                  | 0839:57                 | 393             | 1882                | 1.55E+05        | 10              | 224, 16                  | FS        |
| 7273           | 146 | 84/05/25                  | 0845:23                  | 0847:17                 | 393             | 519                 | 39111           | 6               | 224, 16                  |           |
| 7274           | 146 | 84/05/25                  | 1459:40                  | 1500:06                 | 80              | 89                  | 1230            | 2               |                          |           |
| 7275           | 146 | 84/05/25                  | 1635:26                  | 1635:40                 | 26              | 77                  | 196             | 2               |                          |           |
| 7276           | 146 | 84/05/25                  | 1957:15                  | 1958:10                 | 122             | 235                 | 5378            | 3               | 225, 1                   | EG        |
| 8325           | 146 | 84/05/25                  | 2129:53                  | 2130:16                 | 75              | 119                 | 5347            | 3               | 703, 11                  | I         |
| 7277           | 147 | 84/05/26                  | 0143:38                  | 0144:15                 | 144             | 81                  |                 | 2               |                          |           |
| 7278           | 147 | 84/05/26                  | 1247:25                  | 1248:13                 | 186             | 91                  |                 | 5               |                          | AX        |
| 7279           | 147 | 84/05/26                  | 1315:26                  | 1319:04                 | 571             | 195                 | 10481           | 3               | 225, 2                   |           |
| 7280           | 147 | 84/05/26                  | 1757:37                  | 1758:51                 | 113             | 130                 | 2218            | 4               | 225, 3                   | ES        |
| 7281           | 147 | 84/05/26                  | 1923:02                  | 1923:33                 | 55              | 114                 | 799             | 2               | 225, 4                   |           |
| 7282           | 148 | 84/05/27                  | 1001:09                  | 1001:49                 | 102             | 70                  |                 | 2               |                          |           |
| 7283           | 148 | 84/05/27                  | 1552:42                  | 1552:49                 | 32              | 155                 | 649             | 2               | 225, 5                   |           |
| 7284           | 150 | 84/05/29                  | 0909:49                  | 0910:08                 | 87              | 102                 | 914             | 2               | 225, 6                   |           |
| 7285           | 151 | 84/05/30                  | 1028:16                  | 1030:04                 | 177             | 87                  | 973             | 4               |                          |           |
| 7289           | 151 | 84/05/30                  | 1725:44                  | 1726:08                 | 114             | 115                 | 2865            | 3               | 225, 8                   |           |
| 7290           | 152 | 84/05/31                  | 0626:10                  | 0626:35                 | 41              | 88                  |                 | 2               |                          |           |
| 8330           | 152 | 84/05/31                  | 0626:24                  | 0626:34                 | 30              | 83                  | 1636            | 2               | 703, 15                  | I         |
| 7291           | 152 | 84/05/31                  | 1004:18                  | 1005:48                 | 173             | 99                  |                 | 4               |                          |           |
| 7294           | 152 | 84/05/31                  | 1131:51                  | 1137:53                 | 619             | 176                 | 28723           | 4               | 225, 9                   | EN        |
| 8331           | 154 | 84/06/02                  | 0357:09                  | 0357:32                 | 48              | 64                  | 2322            | 2               | 703, 16                  | I         |
| 7296           | 155 | 84/06/03                  | 0147:20                  | 0148:19                 | 158             | 100                 | 3527            | 2               |                          |           |
| 7311           | 166 | 84/06/14                  | 1141:46                  | 1142:14                 | 54              | 64                  | 527             | 5               |                          |           |
| 7312           | 166 | 84/06/14                  | 1452:07                  | 1452:25                 | 84              | 182                 | 2996            | 5               | 226, 4                   |           |
| 7313           | 166 | 84/06/14                  | 1455:13                  | 1455:16                 | 21              | 71                  | 117             | 2               |                          |           |
| 7314           | 166 | 84/06/14                  | 2013:42                  | 2014:11                 | 206             | 503                 | 11135           | 4               | 226, 5                   |           |
| 7315           | 166 | 84/06/14                  | 2144:43                  | 2145:00                 | 132             | 181                 | 3761            | 3               | 226, 6                   |           |
| 7316           | 167 | 84/06/15                  | 2008:43                  | 2009:10                 | 40              | 91                  |                 | 2               |                          |           |
| 7317           | 168 | 84/06/16                  | 0324:32                  | 0326:07                 | 287             | 280                 | 14755           | 3               | 226, 7                   | FS        |
| 7318           | 169 | 84/06/17                  | 2356:38                  | 2358:23                 | 172             | 82                  | 827             | 2               |                          |           |
| 7319           | 170 | 84/06/18                  | 1040:07                  | 1040:25                 | 50              | 90                  | 292             | 2               |                          |           |
| 7324           | 172 | 84/06/20                  | 2030:13                  | 2030:56                 | 56              | 82                  |                 | 2               |                          |           |
| 7325           | 174 | 84/06/22                  | 2153:14                  | 2154:44                 | 168             | 84                  |                 | 3               |                          |           |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 8332           | 175 | 84/06/23                  | 1916:03                  | 1916:13                 | 21              | 108                 | 1286            | 2               | 703, 18                  | I        |
| 8333           | 175 | 84/06/23                  | 1921:26                  | 1922:12                 | 128             | 66                  | 6834            | 2               | 703, 27                  | I        |
| 7326           | 179 | 84/06/27                  | 1806:05                  | 1808:19                 | 565             | 219                 | 14698           | 4               | 226, 11                  |          |
| 7327           | 179 | 84/06/27                  | 1949:59                  | 1950:09                 | 17              | 76                  | 133             | 2               |                          |          |
| 7331           | 180 | 84/06/28                  | 1616:10                  | 1617:59                 | 200             | 81                  | 2199            | 2               |                          |          |
| 7332           | 180 | 84/06/28                  | 1921:09                  | 1922:35                 | 200             | 97                  |                 | 4               |                          |          |
| 7337           | 184 | 84/07/02                  | 1601:49                  | 1603:11                 | 171             | 89                  |                 | 6               |                          |          |
| 7335           | 184 | 84/07/02                  | 1804:23                  | 1805:04                 | 218             | 94                  | 3898            | 5               | 226, 15                  | AX       |
| 7336           | 184 | 84/07/02                  | 1943:18                  | 1944:21                 | 97              | 72                  | 711             | 2               |                          |          |
| 7338           | 185 | 84/07/03                  | 1358:19                  | 1359:11                 | 136             | 82                  | 1030            | 4               |                          |          |
| 7341           | 186 | 84/07/04                  | 0241:44                  | 0244:11                 | 656             | 480                 | 83486           | 6               | 226, 16                  |          |
| 7342           | 186 | 84/07/04                  | 1402:00                  | 1402:29                 | 34              | 70                  |                 | 11              |                          | AX       |
| 7343           | 187 | 84/07/05                  | 1506:16                  | 1507:41                 | 194             | 153                 | 6479            | 2               | 227, 1                   |          |
| 7349           | 190 | 84/07/08                  | 1041:20                  | 1041:40                 | 113             | 80                  |                 | 13              |                          | AX       |
| 7351           | 192 | 84/07/10                  | 0821:20                  | 0822:13                 | 86              | 72                  | 563             | 2               |                          |          |
| 8335           | 193 | 84/07/11                  | 0942:43                  | 0943:05                 | 39              | 68                  | 1915            | 2               | 703, 20                  | I        |
| 7364           | 195 | 84/07/13                  | 1042:59                  | 1044:39                 | 156             | 75                  |                 | 2               |                          |          |
| 8338           | 195 | 84/07/13                  | 1613:49                  | 1614:02                 | 31              | 91                  | 2061            | 4               | 703, 22                  | I        |
| 7365           | 195 | 84/07/13                  | 1750:58                  | 1752:11                 | 100             | 81                  |                 | 3               |                          |          |
| 7366           | 198 | 84/07/16                  | 1027:08                  | 1027:43                 | 64              | 59                  |                 | 2               |                          |          |
| 7367           | 198 | 84/07/16                  | 1107:47                  | 1108:37                 | 112             | 82                  |                 | 6               |                          | AX       |
| 7368           | 199 | 84/07/17                  | 0056:18                  | 0059:14                 | 825             | 533                 | 86084           | 9               | 227, 8                   |          |
| 7369           | 199 | 84/07/17                  | 0904:38                  | 0905:09                 | 58              | 76                  | 791             | 2               |                          | AX       |
| 7370           | 199 | 84/07/17                  | 0947:16                  | 0949:25                 | 183             | 90                  | 3068            | 12              |                          | AX       |
| 7371           | 199 | 84/07/17                  | 1042:39                  | 1044:43                 | 156             | 84                  |                 | 6               |                          | AX       |
| 7372           | 204 | 84/07/22                  | 0809:29                  | 0809:57                 | 42              | 436                 | 3085            | 4               | 227, 9                   |          |
| 7393           | 207 | 84/07/25                  | 2057:31                  | 2057:34                 | 23              | 138                 | 592             | 15              | 228, 2                   |          |
| 7394           | 210 | 84/07/28                  | 0933:40                  | 0933:49                 | 40              | 70                  |                 | 15              |                          |          |
| 7395           | 211 | 84/07/29                  | 1446:39                  | 1447:04                 | 101             | 109                 | 1225            | 9               | 228, 3                   | NS       |
| 7396           | 211 | 84/07/29                  | 1526:57                  | 1527:45                 | 108             | 74                  | 819             | 12              |                          |          |
| 7404           | 215 | 84/08/02                  | 2235:16                  | 2236:28                 | 498             | 122                 | 11287           | 5               | 228, 6                   |          |
| 7405           | 216 | 84/08/03                  | 0059:16                  | 0101:47                 | 197             | 74                  |                 | 7               |                          | AX       |
| 7407           | 218 | 84/08/05                  | 2347:55                  | 2348:02                 | 35              | 103                 | 996             | 12              | 228, 7                   | NS       |
| 7408           | 219 | 84/08/06                  | 0046:41                  | 0047:02                 | 68              | 73                  |                 | 2               |                          |          |
| 7426           | 231 | 84/08/18                  | 2241:48                  | 2243:05                 | 521             | 347                 | 43277           | 3               | 229, 1                   |          |
| 7427           | 231 | 84/08/18                  | 2300:03                  | 2302:18                 | 600             | 1715                | 2.58E+05        | 4               | 229, 1                   | M ,FS    |
| 7428           | 232 | 84/08/19                  | 0201:41                  | 0201:59                 | 46              | 71                  |                 | 2               |                          |          |
| 7429           | 232 | 84/08/19                  | 0342:11                  | 0342:43                 | 69              | 69                  |                 | 2               |                          |          |
| 7430           | 232 | 84/08/19                  | 1745:56                  | 1747:30                 | 140             | 70                  |                 | 3               |                          |          |
| 7431           | 233 | 84/08/20                  | 0200:24                  | 0200:37                 | 32              | 80                  | 237             | 15              | 229, 2                   | NS       |
| 7432           | 237 | 84/08/24                  | 0508:54                  | 0509:18                 | 31              | 85                  | 229             | 2               |                          |          |
| 7433           | 237 | 84/08/24                  | 1222:13                  | 1223:40                 | 182             | 88                  | 2381            | 9               |                          | AX       |
| 7434           | 239 | 84/08/26                  | 0213:47                  | 0214:13                 | 127             | 95                  | 1559            | 2               |                          |          |
| 7435           | 239 | 84/08/26                  | 0522:35                  | 0524:03                 | 197             | 80                  | 2980            | 2               |                          |          |
| 7436           | 250 | 84/09/06                  | 1950:11                  | 1951:06                 | 169             | 175                 | 2526            | 5               | 229, 3                   |          |
| 7437           | 252 | 84/09/08                  | 2041:31                  | 2041:48                 | 74              | 68                  |                 | 2               |                          |          |
| 8356           | 252 | 84/09/08                  | 2357:07                  | 2357:27                 | 46              | 253                 | 4599            | 4               | 703, 38                  | I        |
| 7438           | 257 | 84/09/13                  | 1719:52                  | 1720:31                 | 133             | 86                  | 1700            | 15              | 229, 4                   |          |
| 7439           | 257 | 84/09/13                  | 2221:49                  | 2221:58                 | 54              | 67                  | 430             | 12              |                          |          |
| 7442           | 261 | 84/09/17                  | 1433:02                  | 1434:31                 | 172             | 73                  | 1296            | 15              |                          |          |
| 7443           | 261 | 84/09/17                  | 1852:23                  | 1852:30                 | 12              | 116                 | 325             | 14              | 229, 7                   | NS       |
| 7447           | 268 | 84/09/24                  | 0225:17                  | 0225:24                 | 77              | 64                  | 485             | 2               |                          |          |
| 7448           | 272 | 84/09/28                  | 2110:53                  | 2111:50                 | 133             | 81                  |                 | 3               |                          |          |
| 7449           | 282 | 84/10/08                  | 1336:20                  | 1337:20                 | 136             | 101                 | 2666            | 5               |                          | AX       |
| 7450           | 282 | 84/10/08                  | 1514:34                  | 1515:39                 | 177             | 89                  |                 | 5               |                          | SG       |
| 7460           | 309 | 84/11/04                  | 0248:19                  | 0250:23                 | 161             | 95                  |                 | 2               |                          |          |
| 7464           | 315 | 84/11/10                  | 0025:06                  | 0025:34                 | 42              | 78                  |                 | 4               |                          |          |
| 7465           | 315 | 84/11/10                  | 2002:05                  | 2007:03                 | 362             | 5530                | 3.64E+05        | 11              | 230, 1                   | EN       |
| 7466           | 315 | 84/11/10                  | 2046:13                  | 2048:22                 | 175             | 71                  |                 | 4               |                          |          |
| 8367           | 317 | 84/11/12                  | 1028:26                  | 1028:26                 | 221             | 96                  | 1365            | 4               | 704, 2                   | I ,SN,ES |
| 7467           | 321 | 84/11/16                  | 1412:57                  | 1414:57                 | 344             | 171                 | 6014            | 5               | 230, 2                   |          |
| 7475           | 327 | 84/11/22                  | 0514:12                  | 0515:37                 | 106             | 154                 | 2798            | 2               | 230, 3                   |          |
| 7476           | 330 | 84/11/25                  | 2314:44                  | 2315:43                 | 77              | 166                 | 1693            | 3               | 230, 4                   |          |
| 7477           | 331 | 84/11/26                  | 1257:54                  | 1258:21                 | 72              | 85                  |                 | 4               |                          |          |
| 7478           | 331 | 84/11/26                  | 1913:22                  | 1914:43                 | 188             | 880                 | 19025           | 5               | 230, 5                   | M        |
| 7479           | 332 | 84/11/27                  | 0217:58                  | 0218:15                 | 113             | 154                 | 4585            | 3               | 230, 7                   |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 7480           | 332 | 84/11/27                  | 0450:12                  | 0450:45                 | 101             | 189                 | 3416            | 4               | 230, 8                   |       |
| 7481           | 332 | 84/11/27                  | 0623:36                  | 0623:54                 | 25              | 75                  |                 | 2               |                          |       |
| 7482           | 332 | 84/11/27                  | 1054:18                  | 1056:41                 | 906             | 397                 | 37152           | 5               | 230, 9                   | SN    |
| 7483           | 332 | 84/11/27                  | 1407:32                  | 1407:34                 | 22              | 74                  | 347             | 15              | 230, 10                  |       |
| 7484           | 332 | 84/11/27                  | 1846:21                  | 1846:38                 | 238             | 114                 | 4262            | 2               | 230, 11                  |       |
| 7485           | 333 | 84/11/28                  | 0805:29                  | 0805:36                 | 23              | 104                 | 350             | 2               | 230, 12                  |       |
| 8393           | 336 | 84/12/01                  | 1844:58                  | 1852:58                 | 811             | 41                  | 1958            | 3               | 704, 6                   | I     |
| 7486           | 338 | 84/12/03                  | 1048:40                  | 1049:22                 | 130             | 86                  |                 | 3               |                          |       |
| 7492           | 340 | 84/12/05                  | 0128:25                  | 0129:03                 | 128             | 110                 | 977             | 12              | 230, 16                  | NS    |
| 8395           | 348 | 84/12/13                  | 0314:28                  | 0315:10                 | 123             | 131                 | 2586            | 9               | 704, 8                   | I     |

**This Page Intentionally Left Blank**



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS         |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|---------------|
| 7521           | 1   | 85/01/01                  | 0835:51                  | 0835:59                 | 21              | 151                 | 294             | 10              | 231, 12                  |               |
| 8401           | 14  | 85/01/14                  | 0604:27                  | 0605:15                 | 71              | 85                  | 618             | 2               | 704, 11                  | I             |
| 8402           | 16  | 85/01/16                  | 1016:36                  | 1016:44                 | 107             | 95                  | 1532            | 12              | 704, 12                  | I             |
| 8403           | 18  | 85/01/18                  | 1524:15                  | 1524:30                 | 41              | 131                 | 1004            | 3               | 704, 13                  | I             |
| 7541           | 19  | 85/01/19                  | 0701:58                  | 0702:16                 | 40              | 82                  |                 | 2               |                          |               |
| 7542           | 20  | 85/01/20                  | 1254:19                  | 1254:57                 | 164             | 161                 | 3644            | 3               | 232, 6                   |               |
| 7543           | 20  | 85/01/20                  | 2045:27                  | 2045:51                 | 1509            | 13040               | 9.27E+05        | 10              | 232, 7                   | M             |
| 7544           | 21  | 85/01/21                  | 0010:58                  | 0011:24                 | 140             | 163                 | 3036            | 2               | 232, 8                   |               |
| 8404           | 21  | 85/01/21                  | 0217:39                  | 0218:16                 | 67              | 84                  | 823             | 2               | 704, 14                  | I             |
| 8405           | 21  | 85/01/21                  | 0344:23                  | 0351:17                 | 1003            | 424                 | 1.31E+05        | 3               | 704, 15                  | I             |
| 8406           | 21  | 85/01/21                  | 0503:57                  | 0505:27                 | 366             | 792                 | 85891           | 6               | 704, 16                  | I             |
| 8407           | 21  | 85/01/21                  | 0512:38                  | 0513:12                 | 84              | 697                 | 10528           | 5               | 704, 16                  | I             |
| 8408           | 21  | 85/01/21                  | 0637:46                  | 0638:09                 | 74              | 65                  | 573             | 2               | 704, 17                  | I             |
| 7545           | 21  | 85/01/21                  | 0705:49                  | 0706:45                 | 117             | 71                  |                 | 2               |                          |               |
| 7546           | 21  | 85/01/21                  | 0813:22                  | 0813:28                 | 16              | 69                  |                 | 2               |                          |               |
| 7547           | 21  | 85/01/21                  | 1411:06                  | 1417:19                 | 548             | 1784                | 2.12E+05        | 4               | 232, 9                   | M, ES         |
| 7548           | 21  | 85/01/21                  | 1548:04                  | 1548:24                 | 70              | 111                 | 1125            | 2               | 232, 10                  |               |
| 7549           | 21  | 85/01/21                  | 1712:32                  | 1717:30                 | 901             | 200                 | 55595           | 2               | 232, 11                  | SN            |
| 7550           | 21  | 85/01/21                  | 1736:26                  | 1737:11                 | 54              | 93                  | 1048            | 2               |                          | ES            |
| 7551           | 21  | 85/01/21                  | 2155:51                  | 2156:30                 | 61              | 78                  | 495             | 2               |                          |               |
| 7553           | 21  | 85/01/21                  | 2208:28                  | 2209:22                 | 897             | 127                 | 9510            | 2               | 232, 12                  | DG            |
| 7554           | 21  | 85/01/21                  | 2352:28                  | 0001:32                 | 6222            | 133000              | 4.83E+07        | 15              | 233, 1                   | M, IN, IS, DG |
| 7555           | 22  | 85/01/22                  | 0146:17                  | 0147:36                 | 434             | 134                 | 4163            | 3               | 233, 1                   | DG            |
| 8409           | 23  | 85/01/23                  | 0103:36                  | 0103:47                 | 27              | 94                  | 358             | 2               | 704, 18                  | I             |
| 8220           | 23  | 85/01/23                  | 0723:52                  | 0727:12                 | 1757            | 1004                | 93995           | 4               | 250, 9                   |               |
| 7622           | 38  | 85/02/07                  | 2128:24                  | 2130:38                 | 249             | 126                 | 4632            | 5               | 234, 15                  |               |
| 7623           | 38  | 85/02/07                  | 2207:11                  | 2208:04                 | 88              | 67                  |                 | 5               |                          |               |
| 8420           | 40  | 85/02/09                  | 1632:17                  | 1632:32                 | 115             | 83                  | 870             | 8               | 705, 1                   | I             |
| 7644           | 49  | 85/02/18                  | 1552:30                  | 1553:18                 | 168             | 74                  | 2060            | 2               |                          |               |
| 7645           | 49  | 85/02/18                  | 2320:50                  | 2322:39                 | 566             | 122                 | 11181           | 3               | 235, 7                   |               |
| 7647           | 51  | 85/02/20                  | 2130:31                  | 2131:13                 | 75              | 486                 | 9915            | 5               | 235, 8                   |               |
| 7677           | 80  | 85/03/21                  | 0126:29                  | 0126:59                 | 80              | 117                 | 1549            | 2               | 236, 5                   |               |
| 7682           | 80  | 85/03/21                  | 2153:08                  | 2155:54                 | 192             | 71                  |                 | 4               |                          |               |
| 7683           | 80  | 85/03/21                  | 2224:27                  | 2225:07                 | 252             | 523                 | 20637           | 5               | 236, 7                   |               |
| 7689           | 82  | 85/03/23                  | 0117:24                  | 0119:11                 | 299             | 73                  |                 | 2               |                          |               |
| 7690           | 84  | 85/03/25                  | 2324:19                  | 2324:44                 | 64              | 63                  |                 | 2               |                          |               |
| 7697           | 93  | 85/04/03                  | 2032:08                  | 2032:37                 | 50              | 65                  |                 | 2               |                          |               |
| 7704           | 111 | 85/04/21                  | 1405:57                  | 1406:03                 | 13              | 113                 | 216             | 2               | 236, 16                  |               |
| 7705           | 112 | 85/04/22                  | 1420:37                  | 1422:05                 | 121             | 221                 | 5029            | 15              | 237, 1                   | SA            |
| 7706           | 112 | 85/04/22                  | 1639:18                  | 1639:46                 | 238             | 1666                | 30660           | 9               | 237, 2                   | M             |
| 7707           | 112 | 85/04/22                  | 1701:13                  | 1702:01                 | 108             | 68                  |                 | 2               |                          |               |
| 7708           | 112 | 85/04/22                  | 1951:44                  | 1952:01                 | 50              | 331                 | 1880            | 3               | 237, 4                   |               |
| 7709           | 112 | 85/04/22                  | 2131:53                  | 2132:15                 | 41              | 74                  |                 | 2               |                          |               |
| 7710           | 112 | 85/04/22                  | 2141:26                  | 2141:48                 | 53              | 104                 | 3496            | 2               | 237, 5                   |               |
| 7711           | 113 | 85/04/23                  | 0250:55                  | 0251:16                 | 83              | 117                 | 1474            | 2               | 237, 6                   |               |
| 7712           | 113 | 85/04/23                  | 0850:42                  | 0850:50                 | 16              | 71                  |                 | 2               |                          |               |
| 7715           | 113 | 85/04/23                  | 1040:13                  | 1040:40                 | 48              | 72                  | 279             | 2               |                          |               |
| 7716           | 113 | 85/04/23                  | 1311:57                  | 1312:19                 | 51              | 74                  | 438             | 2               |                          |               |
| 7717           | 113 | 85/04/23                  | 1817:28                  | 1817:44                 | 45              | 68                  | 475             | 3               |                          |               |
| 7718           | 113 | 85/04/23                  | 2104:23                  | 2109:28                 | 442             | 339                 | 21849           | 3               | 237, 7                   |               |
| 8474           | 114 | 85/04/24                  | 0049:16                  | 0049:28                 | 69              | 130                 | 1690            | 4               | 705, 12                  | I             |
| 7719           | 114 | 85/04/24                  | 0146:25                  | 0146:47                 | 41              | 80                  |                 | 2               | 237, 8                   |               |
| 7720           | 114 | 85/04/24                  | 0147:54                  | 0148:21                 | 829             | 2734                | 1.52E+05        | 7               | 237, 8                   | M             |
| 7721           | 114 | 85/04/24                  | 0340:38                  | 0341:04                 | 64              | 62                  |                 | 2               |                          |               |
| 7722           | 114 | 85/04/24                  | 0448:00                  | 0451:24                 | 1200            | 194                 | 33987           | 2               | 237, 10                  |               |
| 7723           | 114 | 85/04/24                  | 0839:37                  | 0839:49                 | 17              | 247                 | 1267            | 3               | 237, 11                  |               |
| 7725           | 114 | 85/04/24                  | 0926:39                  | 0929:35                 | 3736            | 18610               | 7.76E+06        | 15              | 257, 11                  | M, SN, EN     |
| 7726           | 114 | 85/04/24                  | 1645:22                  | 1645:55                 | 89              | 112                 | 1630            | 3               | 237, 14                  | SA            |
| 7727           | 114 | 85/04/24                  | 1729:12                  | 1729:40                 | 47              | 75                  | 263             | 2               |                          |               |
| 7820           | 114 | 85/04/24                  | 2050:01                  | 2050:14                 | 47              | 112                 | 1084            | 3               | 239, 12                  | I             |
| 7728           | 115 | 85/04/25                  | 0317:31                  | 0318:05                 | 41              | 91                  | 282             | 2               |                          |               |
| 7729           | 115 | 85/04/25                  | 0421:25                  | 0421:52                 | 56              | 144                 | 1599            | 3               | 237, 15                  |               |
| 7730           | 115 | 85/04/25                  | 0458:47                  | 0459:12                 | 46              | 220                 | 1482            | 3               | 237, 16                  |               |
| 7731           | 115 | 85/04/25                  | 0737:04                  | 0737:33                 | 73              | 68                  | 704             | 2               |                          |               |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 7881           | 115 | 85/04/25                  | 0912:00                  | 0912:12                 | 27              | 65                  |                 | 2               |                          | I     |
| 7882           | 115 | 85/04/25                  | 0934:06                  | 0934:27                 | 63              | 363                 | 3359            | 4               | 241, 9                   | I     |
| 7732           | 115 | 85/04/25                  | 1445:05                  | 1445:28                 | 42              | 139                 | 959             | 3               | 238, 1                   | M     |
| 7733           | 115 | 85/04/25                  | 1854:26                  | 1854:33                 | 15              | 61                  | 150             | 2               |                          |       |
| 7734           | 115 | 85/04/25                  | 1857:59                  | 1859:02                 | 85              | 123                 | 1482            | 3               | 238, 2                   |       |
| 7735           | 115 | 85/04/25                  | 2026:38                  | 2026:51                 | 47              | 69                  | 346             | 2               |                          |       |
| 7736           | 115 | 85/04/25                  | 2034:19                  | 2034:51                 | 58              | 67                  | 221             | 2               |                          |       |
| 7821           | 116 | 85/04/26                  | 0231:22                  | 0231:47                 | 42              | 128                 | 728             | 2               | 239, 13                  | I     |
| 7742           | 116 | 85/04/26                  | 1422:18                  | 1422:25                 | 25              | 107                 | 377             | 2               | 238, 3                   |       |
| 7743           | 117 | 85/04/27                  | 2324:49                  | 2325:09                 | 27              | 89                  |                 | 2               |                          |       |
| 7883           | 118 | 85/04/28                  | 2212:15                  | 2212:34                 | 82              | 862                 | 16747           | 4               | 241, 10                  | M, I  |
| 7884           | 120 | 85/04/30                  | 0412:14                  | 0412:58                 | 82              | 64                  |                 | 2               |                          | I     |
| 7745           | 120 | 85/04/30                  | 2343:44                  | 2344:09                 | 69              | 1224                | 18322           | 8               | 238, 4                   | M     |
| 7746           | 121 | 85/05/01                  | 0847:08                  | 0847:40                 | 98              | 67                  | 500             | 2               |                          |       |
| 7747           | 121 | 85/05/01                  | 0912:42                  | 0912:48                 | 45              | 87                  | 1010            | 3               |                          |       |
| 7750           | 121 | 85/05/01                  | 1917:35                  | 1918:19                 | 84              | 115                 | 1341            | 2               | 238, 5                   |       |
| 7754           | 126 | 85/05/06                  | 1800:28                  | 1800:44                 | 35              | 105                 | 670             | 2               | 238, 7                   |       |
| 7755           | 127 | 85/05/07                  | 0751:07                  | 0751:22                 | 50              | 102                 | 921             | 2               | 238, 8                   |       |
| 7756           | 127 | 85/05/07                  | 0814:36                  | 0814:51                 | 69              | 64                  | 439             | 2               |                          |       |
| 7760           | 127 | 85/05/07                  | 2138:17                  | 2138:55                 | 48              | 71                  | 269             | 2               |                          |       |
| 7761           | 128 | 85/05/08                  | 0243:38                  | 0244:51                 | 132             | 159                 | 1637            | 3               | 238, 9                   |       |
| 8476           | 128 | 85/05/08                  | 1046:50                  | 1047:04                 | 49              | 85                  | 434             | 2               | 705, 14                  | I     |
| 8479           | 129 | 85/05/09                  | 1942:22                  | 1942:54                 | 47              | 113                 | 1350            | 3               | 705, 15                  | I     |
| 7764           | 132 | 85/05/12                  | 1823:23                  | 1824:39                 | 116             | 70                  | 945             | 2               |                          |       |
| 7765           | 133 | 85/05/13                  | 0516:53                  | 0518:33                 | 128             | 71                  | 992             | 2               |                          |       |
| 8390           | 133 | 85/05/13                  | 1819:30                  | 1822:06                 | 651             | 223                 | 11924           | 5               | 704, 3                   | I     |
| 7768           | 133 | 85/05/13                  | 2220:10                  | 2221:30                 | 190             | 75                  | 1393            | 2               |                          |       |
| 8391           | 134 | 85/05/14                  | 0010:40                  | 0011:13                 | 84              | 71                  | 683             | 2               | 704, 4                   | I     |
| 8392           | 134 | 85/05/14                  | 0024:16                  | 0025:16                 | 122             | 60                  | 1090            | 2               | 704, 5                   | I     |
| 7769           | 134 | 85/05/14                  | 1124:40                  | 1124:58                 | 43              | 72                  | 375             | 2               |                          |       |
| 7770           | 134 | 85/05/14                  | 1556:29                  | 1556:33                 | 12              | 76                  |                 | 2               |                          |       |
| 8480           | 137 | 85/05/17                  | 1732:41                  | 1733:09                 | 44              | 107                 | 1070            | 10              | 705, 18                  | I     |
| 7775           | 139 | 85/05/19                  | 1527:54                  | 1528:44                 | 178             | 94                  |                 | 2               |                          |       |
| 7776           | 139 | 85/05/19                  | 1717:46                  | 1719:07                 | 101             | 80                  |                 | 2               |                          |       |
| 7777           | 139 | 85/05/19                  | 1731:12                  | 1733:01                 | 281             | 149                 | 7588            | 2               |                          |       |
| 7795           | 141 | 85/05/21                  | 0411:01                  | 0411:32                 | 235             | 137                 | 4685            | 2               | 239, 2                   |       |
| 7854           | 141 | 85/05/21                  | 0953:16                  | 0954:18                 | 117             | 1132                | 33900           | 12              | 705, 19                  | I     |
| 7877           | 168 | 85/06/17                  | 1205:58                  | 1206:22                 | 148             | 85                  | 558             | 2               |                          |       |
| 7878           | 168 | 85/06/17                  | 1209:47                  | 1210:00                 | 28              | 67                  | 198             | 3               |                          |       |
| 8485           | 181 | 85/06/30                  | 2326:46                  | 2326:58                 | 74              | 65                  | 616             | 2               | 705, 20                  | I     |
| 7893           | 183 | 85/07/02                  | 2113:18                  | 2120:30                 | 1868            | 7179                | 7.73E+05        | 15              | 242, 2                   | M5,DG |
| 7894           | 184 | 85/07/03                  | 2306:08                  | 2306:22                 | 41              | 91                  | 495             | 2               |                          |       |
| 7900           | 187 | 85/07/06                  | 1922:31                  | 1923:06                 | 68              | 113                 | 1631            | 2               | 242, 5                   |       |
| 7901           | 187 | 85/07/06                  | 2303:09                  | 2303:20                 | 30              | 138                 | 594             | 2               | 242, 6                   |       |
| 7902           | 188 | 85/07/07                  | 0011:10                  | 0011:47                 | 94              | 143                 | 1509            | 2               | 242, 7                   |       |
| 7903           | 188 | 85/07/07                  | 0040:22                  | 0041:07                 | 112             | 93                  |                 | 2               |                          |       |
| 7904           | 188 | 85/07/07                  | 0526:28                  | 0527:38                 | 104             | 72                  |                 | 2               |                          |       |
| 8486           | 188 | 85/07/07                  | 2026:14                  | 2027:16                 | 94              | 488                 | 5710            | 5               | 706, 1                   | I     |
| 7905           | 188 | 85/07/07                  | 2224:46                  | 2226:07                 | 193             | 95                  | 2810            | 2               |                          |       |
| 7912           | 189 | 85/07/08                  | 1214:59                  | 1215:05                 | 16              | 68                  | 118             | 2               |                          |       |
| 7913           | 189 | 85/07/08                  | 1558:26                  | 1558:45                 | 27              | 128                 | 992             | 3               | 242, 9                   |       |
| 7914           | 189 | 85/07/08                  | 1605:07                  | 1605:39                 | 103             | 192                 | 2206            | 2               | 242, 9                   |       |
| 7915           | 189 | 85/07/08                  | 2321:43                  | 2321:59                 | 36              | 88                  | 592             | 2               |                          |       |
| 7917           | 190 | 85/07/09                  | 0845:24                  | 0845:48                 | 60              | 83                  |                 | 2               |                          |       |
| 7918           | 190 | 85/07/09                  | 1541:51                  | 1542:08                 | 36              | 74                  |                 | 2               |                          |       |
| 7919           | 190 | 85/07/09                  | 1646:07                  | 1648:31                 | 335             | 249                 | 9653            | 2               | 242, 10                  | EG    |
| 7920           | 191 | 85/07/10                  | 0030:50                  | 0031:00                 | 31              | 82                  |                 | 2               |                          |       |
| 7921           | 191 | 85/07/10                  | 0859:45                  | 0900:02                 | 44              | 115                 | 1244            | 2               | 242, 11                  |       |
| 7926           | 191 | 85/07/10                  | 1021:40                  | 1023:01                 | 137             | 88                  | 1639            | 2               |                          |       |
| 7927           | 191 | 85/07/10                  | 1646:24                  | 1646:45                 | 127             | 165                 | 2261            | 3               | 242, 14                  |       |
| 8487           | 191 | 85/07/10                  | 2229:56                  | 2230:03                 | 26              | 43                  | 163             | 2               | 706, 2                   | I     |
| 8488           | 191 | 85/07/10                  | 2231:45                  | 2232:00                 | 39              | 49                  | 209             | 2               | 706, 2                   | I     |
| 7932           | 193 | 85/07/12                  | 0141:18                  | 0141:36                 | 58              | 81                  | 622             | 2               |                          |       |
| 7933           | 193 | 85/07/12                  | 0433:33                  | 0433:54                 | 51              | 77                  | 600             | 2               |                          |       |
| 7934           | 193 | 85/07/12                  | 0501:29                  | 0502:14                 | 80              | 111                 | 1476            | 2               | 243, 1                   |       |
| 7940           | 193 | 85/07/12                  | 2151:44                  | 2152:01                 | 41              | 145                 | 1004            | 2               | 243, 3                   |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8489           | 194 | 85/07/13                  | 0515:37                  | 0515:42                 | 30              | 84                  | 343             | 3               | 706, 3                   | I     |
| 8490           | 194 | 85/07/13                  | 0550:27                  | 0550:43                 | 27              | 163                 | 683             | 3               | 706, 4                   | I     |
| 8491           | 194 | 85/07/13                  | 0601:27                  | 0601:45                 | 88              | 78                  | 1040            | 2               | 706, 5                   | I     |
| 8492           | 194 | 85/07/13                  | 0656:19                  | 0657:31                 | 174             | 144                 | 6380            | 3               | 706, 6                   | I     |
| 8493           | 194 | 85/07/13                  | 0848:51                  | 0849:13                 | 47              | 337                 | 2790            | 6               | 706, 7                   | I     |
| 8494           | 194 | 85/07/13                  | 1132:15                  | 1132:33                 | 26              | 86                  | 298             | 3               | 706, 8                   | I     |
| 8495           | 194 | 85/07/13                  | 1316:53                  | 1320:21                 | 240             | 656                 | 1810            | 6               | 706, 9                   | I     |
| 7941           | 194 | 85/07/13                  | 1950:34                  | 1951:12                 | 77              | 84                  |                 | 2               |                          |       |
| 7942           | 194 | 85/07/13                  | 2104:53                  | 2105:13                 | 41              | 93                  |                 | 2               |                          |       |
| 7960           | 199 | 85/07/18                  | 0040:23                  | 0040:45                 | 39              | 170                 | 1062            | 12              | 243, 9                   |       |
| 7975           | 210 | 85/07/29                  | 1602:52                  | 1603:47                 | 94              | 85                  |                 | 2               |                          |       |
| 7978           | 212 | 85/07/31                  | 0334:58                  | 0335:38                 | 68              | 71                  |                 | 2               |                          |       |
| 7979           | 213 | 85/08/01                  | 0542:18                  | 0542:52                 | 107             | 74                  |                 | 2               |                          |       |
| 7980           | 213 | 85/08/01                  | 0718:35                  | 0718:54                 | 152             | 73                  |                 | 2               |                          |       |
| 8511           | 218 | 85/08/06                  | 1826:02                  | 1826:20                 | 34              | 66                  | 282             | 3               | 706, 10                  | I     |
| 7981           | 220 | 85/08/08                  | 0742:45                  | 0744:49                 | 362             | 319                 | 22581           | 4               | 244, 3                   |       |
| 7982           | 220 | 85/08/08                  | 1547:48                  | 1548:09                 | 130             | 81                  | 652             | 2               |                          |       |
| 7983           | 223 | 85/08/11                  | 0508:24                  | 0508:30                 | 20              | 93                  | 376             | 15              | 244, 4                   |       |
| 7993           | 238 | 85/08/26                  | 0824:02                  | 0824:06                 | 30              | 85                  |                 | 5               |                          |       |
| 7997           | 242 | 85/08/30                  | 1544:20                  | 1544:53                 | 75              | 74                  |                 | 2               |                          |       |
| 7998           | 243 | 85/08/31                  | 1116:26                  | 1116:48                 | 137             | 68                  |                 | 2               |                          |       |
| 7999           | 246 | 85/09/03                  | 2329:38                  | 2329:58                 | 65              | 83                  |                 | 7               |                          |       |
| 8528           | 258 | 85/09/15                  | 0733:40                  | 0734:39                 | 184             | 106                 | 3390            | 4               | 706, 11                  | I     |
| 8005           | 260 | 85/09/17                  | 0100:54                  | 0101:12                 | 62              | 73                  |                 | 9               |                          |       |
| 8531           | 263 | 85/09/20                  | 2006:20                  | 2006:24                 | 14              | 117                 | 246             | 15              | 706, 12                  | I ,NS |
| 8010           | 285 | 85/10/12                  | 1044:28                  | 1044:34                 | 26              | 66                  |                 | 6               |                          |       |
| 8011           | 292 | 85/10/19                  | 0458:32                  | 0458:41                 | 27              | 89                  |                 | 2               |                          |       |
| 8012           | 296 | 85/10/23                  | 2209:52                  | 2210:22                 | 88              | 89                  |                 | 2               |                          |       |
| 8539           | 297 | 85/10/24                  | 1150:02                  | 1153:06                 | 326             | 92                  | 3750            | 2               | 706, 14                  | I     |
| 8547           | 297 | 85/10/24                  | 1150:09                  | 1152:49                 | 295             | 87                  | 5150            | 3               | 706, 15                  | I'    |
| 8013           | 297 | 85/10/24                  | 1150:30                  | 1150:50                 | 49              | 72                  |                 | 2               |                          |       |
| 8014           | 299 | 85/10/26                  | 0704:52                  | 0705:17                 | 51              | 57                  |                 | 2               |                          |       |
| 8015           | 317 | 85/11/13                  | 2302:18                  | 2303:49                 | 369             | 92                  | 6245            | 2               | 244, 16                  |       |
| 8016           | 318 | 85/11/14                  | 0308:06                  | 0310:48                 | 258             | 89                  | 3994            | 2               | 245, 1                   | SA    |
| 8055           | 349 | 85/12/15                  | 0605:24                  | 0606:23                 | 148             | 98                  |                 | 2               |                          |       |
| 8056           | 349 | 85/12/15                  | 2215:26                  | 2216:10                 | 99              | 145                 | 1998            | 2               | 246, 8                   |       |
| 8126           | 364 | 85/12/30                  | 0317:47                  | 0317:55                 | 50              | 80                  |                 | 3               |                          |       |

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS      |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|------------|
| 8132           | 15  | 86/01/15                  | 0710:19                  | 0711:14                 | 115             | 67                  |                 | 2               |                          |            |
| 8133           | 15  | 86/01/15                  | 1156:20                  | 1156:31                 | 18              | 68                  |                 | 2               |                          |            |
| 8564           | 16  | 86/01/16                  | 1206:53                  | 1208:07                 | 204             | 197                 | 8000            | 2               | 707, 2                   | I          |
| 8565           | 16  | 86/01/16                  | 1611:59                  | 1612:44                 | 505             | 3414                | 65700           | 8               | 707, 3                   | I, SN, EG  |
| 8134           | 20  | 86/01/20                  | 1208:36                  | 1209:34                 | 158             | 145                 | 4501            | 5               | 247, 15                  | AX         |
| 8136           | 29  | 86/01/29                  | 0917:53                  | 0918:40                 | 76              | 79                  |                 | 2               |                          |            |
| 8137           | 33  | 86/02/02                  | 1119:56                  | 1120:04                 | 50              | 240                 | 2146            | 2               | 247, 16                  |            |
| 8138           | 33  | 86/02/02                  | 1120:59                  | 1121:54                 | 119             | 130                 | 2299            | 2               | 247, 16                  |            |
| 8139           | 33  | 86/02/02                  | 1307:08                  | 1307:56                 | 71              | 68                  |                 | 2               |                          |            |
| 8140           | 33  | 86/02/02                  | 1308:49                  | 1309:53                 | 99              | 70                  |                 | 2               |                          |            |
| 8141           | 33  | 86/02/02                  | 1612:54                  | 1613:30                 | 65              | 78                  |                 | 2               |                          |            |
| 8142           | 33  | 86/02/02                  | 1706:34                  | 1706:58                 | 111             | 67                  |                 | 2               |                          |            |
| 8143           | 34  | 86/02/03                  | 0922:32                  | 0922:36                 | 73              | 68                  |                 | 2               |                          |            |
| 8144           | 34  | 86/02/03                  | 2036:47                  | 2037:14                 | 82              | 4174                | 1.21E+05        | 7               | 248, 1                   | M5         |
| 8145           | 34  | 86/02/03                  | 2115:10                  | 2115:25                 | 3387            | 132                 | 28727           | 4               | 248, 2                   | SN, SG, DG |
| 8146           | 35  | 86/02/04                  | 0515:56                  | 0516:14                 | 40              | 88                  |                 | 2               |                          |            |
| 8147           | 35  | 86/02/04                  | 0733:09                  | 0737:14                 | 317             | 85220               | 4.96E+06        | 14              | 248, 3                   | M5, EN     |
| 8149           | 35  | 86/02/04                  | 1022:48                  | 1026:04                 | 1431            | 8487                | 1.16E+06        | 15              | 248, 4                   | M5, SA     |
| 8150           | 35  | 86/02/04                  | 1610:36                  | 1610:54                 | 72              | 71                  |                 | 2               |                          |            |
| 8151           | 35  | 86/02/04                  | 1929:57                  | 1930:16                 | 109             | 97                  |                 | 2               |                          |            |
| 8152           | 36  | 86/02/05                  | 0041:27                  | 0046:30                 | 907             | 210                 | 28054           | 4               | 248, 5                   |            |
| 8153           | 36  | 86/02/05                  | 0330:24                  | 0330:54                 | 72              | 68                  |                 | 2               |                          |            |
| 8575           | 36  | 86/02/05                  | 1019:02                  | 1019:52                 | 81              | 55                  | 402             | 2               | 707, 8                   | I          |
| 8154           | 36  | 86/02/05                  | 1234:08                  | 1235:43                 | 302             | 377                 | 32439           | 3               | 248, 6                   | M, ES, DG  |
| 8155           | 37  | 86/02/06                  | 0141:20                  | 0141:25                 | 53              | 72                  |                 | 2               |                          |            |
| 8465           | 37  | 86/02/06                  | 0617:12                  | 0622:05                 | 1857            | 92037               | 1.18E+07        | 15              | 705, 9                   | I          |
| 8158           | 37  | 86/02/06                  | 1527:32                  | 1527:44                 | 42              | 98                  | 568             | 2               |                          |            |
| 8159           | 37  | 86/02/06                  | 2026:05                  | 2026:21                 | 34              | 83                  | 453             | 2               |                          |            |
| 8160           | 38  | 86/02/07                  | 0137:02                  | 0137:08                 | 21              | 62                  | 213             | 2               |                          |            |
| 8161           | 38  | 86/02/07                  | 0237:53                  | 0238:01                 | 13              | 105                 | 261             | 2               | 248, 8                   |            |
| 8162           | 38  | 86/02/07                  | 0306:03                  | 0306:17                 | 24              | 296                 | 1072            | 4               | 248, 9                   |            |
| 8163           | 38  | 86/02/07                  | 0402:49                  | 0403:06                 | 36              | 82                  | 211             | 2               |                          |            |
| 8164           | 38  | 86/02/07                  | 0728:35                  | 0728:44                 | 48              | 74                  | 566             | 2               |                          |            |
| 8576           | 38  | 86/02/07                  | 1042:08                  | 1042:27                 | 1423            | 194                 | 8580            | 8               | 708, 1                   | I, EN, SA  |
| 8166           | 38  | 86/02/07                  | 2254:16                  | 2255:25                 | 126             | 75                  |                 | 3               |                          |            |
| 8167           | 38  | 86/02/07                  | 2324:11                  | 2327:47                 | 613             | 147                 | 7889            | 3               | 248, 11                  | SG, DG     |
| 8168           | 39  | 86/02/08                  | 2140:02                  | 2140:13                 | 54              | 73                  |                 | 2               |                          |            |
| 8169           | 40  | 86/02/09                  | 0451:09                  | 0451:29                 | 67              | 66                  |                 | 2               |                          |            |
| 8170           | 40  | 86/02/09                  | 2106:59                  | 2107:16                 | 56              | 255                 | 3057            | 3               | 248, 12                  |            |
| 8174           | 41  | 86/02/10                  | 2018:30                  | 2022:00                 | 1184            | 1096                | 1.29E+05        | 10              | 248, 16                  | M          |
| 8175           | 41  | 86/02/10                  | 2154:14                  | 2155:10                 | 152             | 67                  | 993             | 2               |                          |            |
| 8176           | 42  | 86/02/11                  | 0059:20                  | 0059:56                 | 194             | 273                 | 5981            | 5               | 249, 1                   |            |
| 8177           | 42  | 86/02/11                  | 2304:42                  | 2324:29                 | 1628            | 288                 | 37509           | 3               | 703, 35                  | I          |
| 8178           | 43  | 86/02/12                  | 0409:47                  | 0409:50                 | 7               | 74                  |                 | 2               |                          |            |
| 8179           | 44  | 86/02/13                  | 0033:55                  | 0034:02                 | 12              | 132                 | 343             | 3               | 249, 3                   |            |
| 8180           | 44  | 86/02/13                  | 0151:09                  | 0151:26                 | 58              | 89                  |                 | 2               |                          |            |
| 8181           | 44  | 86/02/13                  | 0452:22                  | 0453:09                 | 170             | 184                 |                 | 2               | 249, 4                   |            |
| 8182           | 44  | 86/02/13                  | 0455:15                  | 0455:47                 | 74              | 56                  |                 | 2               | 249, 4                   |            |
| 8344           | 44  | 86/02/13                  | 1717:57                  | 1720:23                 | 317             | 53                  | 2694            | 3               | 703, 34                  | I          |
| 8188           | 44  | 86/02/13                  | 1847:15                  | 1847:45                 | 40              | 131                 | 628             | 2               | 249, 7                   |            |
| 8189           | 45  | 86/02/14                  | 0909:48                  | 0915:40                 | 2025            | 2937                | 1.80E+06        | 13              | 249, 8                   | M          |
| 8190           | 45  | 86/02/14                  | 1544:07                  | 1544:59                 | 250             | 1603                | 38979           | 7               | 249, 9                   |            |
| 8464           | 45  | 86/02/14                  | 2036:12                  | 2037:25                 | 227             | 132                 | 6922            | 2               | 257, 10                  |            |
| 8577           | 45  | 86/02/14                  | 2036:16                  | 2037:28                 | 171             | 130                 | 6200            | 3               | 708, 2                   | I, EN      |
| 8191           | 45  | 86/02/14                  | 2340:45                  | 2341:03                 | 39              | 178                 | 811             | 2               | 249, 10                  |            |
| 8578           | 46  | 86/02/15                  | 0844:36                  | 0845:36                 | 110             | 804                 | 20000           | 7               | 708, 4                   | I          |
| 8579           | 46  | 86/02/15                  | 1128:21                  | 1129:12                 | 593             | 138                 | 27120           | 5               | 708, 5                   | I, SN, IS  |
| 8580           | 46  | 86/02/15                  | 1303:49                  | 1304:36                 | 145             | 548                 | 20200           | 8               | 708, 6                   | I, SN      |
| 8581           | 46  | 86/02/15                  | 1308:10                  | 1308:53                 | 88              | 5178                | 1.15E+05        | 12              | 708, 6                   | I          |
| 8582           | 47  | 86/02/16                  | 2227:23                  | 2242:40                 | 1538            | 240                 | 1.27E+05        | 5               | 708, 8                   | I, EN, DG  |
| 8196           | 60  | 86/03/01                  | 1550:25                  | 1550:56                 | 165             | 62                  |                 | 2               |                          |            |
| 8197           | 61  | 86/03/02                  | 0257:02                  | 0257:20                 | 72              | 174                 | 1726            | 2               | 249, 11                  |            |
| 8198           | 61  | 86/03/02                  | 0540:04                  | 0542:35                 | 295             | 112                 | 5655            | 2               | 249, 12                  |            |
| 8199           | 61  | 86/03/02                  | 1950:12                  | 1950:24                 | 41              | 69                  |                 | 2               | 249, 13                  |            |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 8200           | 61  | 86/03/02                  | 1951:36                  | 1952:22                 | 80              | 118                 | 972             | 2               | 249, 13                  |          |
| 8201           | 62  | 86/03/03                  | 0458:43                  | 0500:14                 | 243             | 120                 | 46782           | 5               | 249, 14                  |          |
| 8202           | 62  | 86/03/03                  | 1251:43                  | 1253:08                 | 337             | 1965                | 56103           | 6               | 249, 15                  | M        |
| 8203           | 62  | 86/03/03                  | 1333:45                  | 1334:25                 | 129             | 240                 | 3499            | 2               | 249, 16                  |          |
| 8204           | 63  | 86/03/04                  | 1136:52                  | 1137:35                 | 123             | 120                 | 3684            | 3               | 250, 1                   |          |
| 8207           | 64  | 86/03/05                  | 0414:33                  | 0415:47                 | 293             | 571                 | 16869           | 4               | 250, 2                   |          |
| 8591           | 64  | 86/03/05                  | 0427:33                  | 0428:41                 | 151             | 109                 | 2580            | 2               | 708, 12                  | I        |
| 8592           | 64  | 86/03/05                  | 0708:11                  | 0708:21                 | 97              | 1922                | 44150           | 8               | 708, 13                  | I ,SN    |
| 8206           | 64  | 86/03/05                  | 1358:59                  | 1359:15                 | 50              | 70                  |                 | 2               |                          |          |
| 8208           | 65  | 86/03/06                  | 0431:23                  | 0431:30                 | 16              | 329                 | 1580            | 3               | 250, 2                   | M        |
| 8209           | 65  | 86/03/06                  | 0902:53                  | 0903:11                 | 69              | 111                 | 3005            | 2               | 250, 3                   |          |
| 8210           | 65  | 86/03/06                  | 0955:17                  | 0956:15                 | 142             | 112                 | 4066            | 2               | 250, 4                   |          |
| 8211           | 66  | 86/03/07                  | 0000:22                  | 0000:32                 | 21              | 90                  |                 | 2               |                          |          |
| 8212           | 66  | 86/03/07                  | 0201:38                  | 0202:30                 | 262             | 214                 | 9097            | 3               | 250, 5                   |          |
| 8213           | 66  | 86/03/07                  | 0208:25                  | 0208:38                 | 21              | 64                  |                 | 2               |                          |          |
| 8217           | 66  | 86/03/07                  | 1239:46                  | 1240:37                 | 242             | 208                 | 13709           | 15              | 250, 6                   |          |
| 8218           | 85  | 86/03/26                  | 0333:56                  | 0334:20                 | 594             | 234                 | 1763            | 15              | , 7                      |          |
| 8219           | 99  | 86/04/09                  | 0549:31                  | 0549:39                 | 33              | 278                 | 1497            | 15              | 250, 8                   | NS       |
| 7599           | 112 | 86/04/22                  | 1125:55                  | 1126:24                 | 87              | 81                  |                 | 2               |                          | I ,EN    |
| * 8221         | 113 | 86/04/23                  | 1139:50                  | 1140:05                 | 84              | 64                  |                 | 2               |                          |          |
| * 8222         | 113 | 86/04/23                  | 1403:01                  | 1403:21                 | 47              | 67                  |                 | 2               |                          |          |
| 7600           | 114 | 86/04/24                  | 0039:04                  | 0042:20                 | 447             | 302                 | 44031           | 3               | 701, 18                  | I        |
| * 8223         | 114 | 86/04/24                  | 0345:00                  | 0346:39                 | 555             | 834                 | 62940           | 3               | 250, 10                  |          |
| * 8224         | 114 | 86/04/24                  | 0631:31                  | 0631:47                 | 49              | 55                  |                 | 2               |                          |          |
| * 8225         | 114 | 86/04/24                  | 0706:28                  | 0706:47                 | 31              | 69                  |                 | 2               |                          |          |
| 6574           | 115 | 86/04/25                  | 1224:16                  | 1226:10                 | 178             | 68                  |                 | 3               |                          | I        |
| * 8226         | 116 | 86/04/26                  | 0254:34                  | 0254:43                 | 23              | 67                  |                 | 2               |                          | I        |
| 5859           | 116 | 86/04/26                  | 1637:34                  | 1638:28                 | 186             | 305                 | 18600           | 2               | 701, 19                  | I        |
| 6016           | 117 | 86/04/27                  | 2120:01                  | 2120:30                 | 52              | 67                  |                 | 2               |                          | I        |
| 8358           | 124 | 86/05/04                  | 1004:54                  | 1008:53                 | 599             | 55                  | 6068            | 3               | 703, 39                  | I ,SN,ES |
| 8611           | 124 | 86/05/04                  | 1630:57                  | 1631:49                 | 217             | 67                  | 1550            | 3               | 709, 2                   | I        |
| * 8231         | 141 | 86/05/21                  | 0144:30                  | 0144:59                 | 50              | 80                  |                 | 2               |                          |          |
| 8613           | 144 | 86/05/24                  | 0405:42                  | 0405:48                 | 28              | 72                  | 360             | 15              | 709, 4                   | I ,NS    |
| 8621           | 146 | 86/05/26                  | 0745:52                  | 0746:00                 | 24              | 66                  | 212             | 2               | 709, 5                   | I        |
| * 8232         | 146 | 86/05/26                  | 2157:49                  | 2158:33                 | 87              | 141                 | 4432            | 2               |                          |          |
| 8239           | 154 | 86/06/03                  | 1458:41                  | 1459:39                 | 171             | 91                  |                 | 5               |                          |          |
| 8240           | 156 | 86/06/05                  | 0121:58                  | 0122:20                 | 50              | 68                  |                 | 3               |                          |          |
| 8245           | 165 | 86/06/14                  | 2302:57                  | 2303:14                 | 69              | 84                  |                 | 15              |                          |          |
| 7864           | 166 | 86/06/15                  | 2037:45                  | 2038:05                 | 35              | 93                  |                 | 4               |                          | I        |
| 8246           | 169 | 86/06/18                  | 0256:56                  | 0257:37                 | 111             | 115                 | 2255            | 6               | 250, 11                  |          |
| 8247           | 172 | 86/06/21                  | 0632:50                  | 0632:59                 | 103             | 61                  |                 | 5               |                          |          |
| 8251           | 194 | 86/07/13                  | 0058:36                  | 0101:03                 | 183             | 85                  |                 | 2               |                          |          |
| 8252           | 202 | 86/07/21                  | 1325:44                  | 1326:47                 | 139             | 71                  |                 | 2               |                          |          |
| 8253           | 207 | 86/07/26                  | 1248:06                  | 1248:33                 | 92              | 71                  |                 | 2               |                          | AX       |
| 8292           | 215 | 86/08/03                  | 0148:20                  | 0148:31                 | 22              | 135                 | 260             | 12              | 702, 1                   | I ,NS    |
| 8254           | 226 | 86/08/14                  | 0037:07                  | 0037:18                 | 160             | 70                  |                 | 6               |                          |          |
| 8255           | 233 | 86/08/21                  | 2114:41                  | 2115:25                 | 144             | 70                  |                 | 11              |                          |          |
| 7994           | 238 | 86/08/26                  | 1229:58                  | 1230:50                 | 98              | 90                  | 883             | 6               | 702, 3                   | I        |
| 8294           | 242 | 86/08/30                  | 0132:59                  | 0133:04                 | 20              | 114                 | 253             | 15              | 702, 4                   | I        |
| 8256           | 256 | 86/09/13                  | 0304:04                  | 0304:10                 | 142             | 124                 | 3006            | 14              | 250, 12                  |          |
| 8257           | 259 | 86/09/16                  | 2343:59                  | 2344:04                 | 85              | 219                 | 2105            | 15              | 250, 13                  |          |
| 8258           | 271 | 86/09/28                  | 1255:36                  | 1256:03                 | 70              | 83                  |                 | 5               |                          |          |
| 8259           | 273 | 86/09/30                  | 2227:14                  | 2229:46                 | 594             | 66                  | 4175            | 2               | 250, 14                  |          |
| 8260           | 274 | 86/10/01                  | 0207:17                  | 0207:30                 | 65              | 69                  |                 | 13              |                          |          |
| 8261           | 275 | 86/10/02                  | 0934:21                  | 0934:48                 | 76              | 80                  |                 | 7               |                          |          |
| 8262           | 275 | 86/10/02                  | 1820:51                  | 1820:54                 | 11              | 251                 | 904             | 9               | 257, 9                   |          |
| 8263           | 279 | 86/10/06                  | 2122:58                  | 2123:47                 | 181             | 70                  |                 | 3               |                          |          |
| 8264           | 286 | 86/10/13                  | 1719:44                  | 1720:00                 | 37              | 75                  |                 | 2               |                          |          |
| 8265           | 286 | 86/10/13                  | 1720:58                  | 1721:41                 | 59              | 76                  |                 | 2               |                          |          |
| 8266           | 286 | 86/10/13                  | 1722:38                  | 1724:26                 | 127             | 83                  |                 | 2               |                          |          |
| 8267           | 286 | 86/10/13                  | 2141:34                  | 2141:45                 | 32              | 68                  |                 | 2               |                          |          |
| 8268           | 289 | 86/10/16                  | 1755:58                  | 1756:40                 | 87              | 64                  |                 | 2               |                          |          |
| 8269           | 289 | 86/10/16                  | 2012:59                  | 2016:40                 | 30              | 57                  |                 | 2               |                          |          |
| 8336           | 289 | 86/10/16                  | 2016:32                  | 2016:40                 | 28              | 57                  | 208             | 2               | 703, 21                  | I        |
| 8270           | 289 | 86/10/16                  | 2202:29                  | 2202:49                 | 62              | 397                 | 3447            | 4               | 250, 16                  |          |
| 8339           | 290 | 86/10/17                  | 1956:06                  | 1958:21                 | 217             | 50                  | 286             | 2               | 703, 23                  | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8271           | 290 | 86/10/17                  | 2312:40                  | 2312:47                 | 23              | 76                  |                 | 2               |                          |       |
| 8272           | 291 | 86/10/18                  | 0340:40                  | 0341:28                 | 150             | 523                 | 4086            | 4               | 252, 2                   |       |
| 8273           | 291 | 86/10/18                  | 1214:49                  | 1216:03                 | 112             | 113                 | 1948            | 2               | 251, 2                   |       |
| 8340           | 291 | 86/10/18                  | 1355:32                  | 1356:01                 | 63              | 34                  | 145             | 2               | 703, 24                  | I     |
| 8274           | 292 | 86/10/19                  | 0020:05                  | 0043:30                 | 2513            | 3110                | 2.00E+06        | 13              | 251, 3                   | MS,EN |
| 8341           | 292 | 86/10/19                  | 1629:28                  | 1639:12                 | 717             | 89                  | 3311            | 4               | 703, 25                  | I     |
| 8342           | 292 | 86/10/19                  | 1641:28                  | 1646:20                 | 496             | 57                  | 4699            | 10              | 703, 25                  | I ,AX |
| 8275           | 292 | 86/10/19                  | 2031:43                  | 2031:56                 | 91              | 122                 | 728             | 3               | 251, 4                   |       |
| 8276           | 292 | 86/10/19                  | 2105:27                  | 2112:17                 | 560             | 106                 | 4065            | 2               | 251, 5                   |       |
| 8277           | 293 | 86/10/20                  | 0322:11                  | 0322:44                 | 106             | 173                 | 2810            | 3               | 251, 6                   |       |
| 8278           | 293 | 86/10/20                  | 0324:12                  | 0324:38                 | 108             | 313                 | 7757            | 4               | 251, 6                   |       |
| 8343           | 293 | 86/10/20                  | 0755:37                  | 0756:09                 | 51              | 83                  | 383             | 3               | 703, 26                  | I     |
| 8279           | 293 | 86/10/20                  | 1242:37                  | 1243:00                 | 50              | 52                  |                 | 2               |                          |       |
| 8280           | 293 | 86/10/20                  | 1446:31                  | 1446:44                 | 22              | 62                  |                 | 2               |                          |       |
| 8281           | 293 | 86/10/20                  | 1539:27                  | 1540:04                 | 96              | 69                  |                 | 2               |                          |       |
| 8282           | 293 | 86/10/20                  | 1908:17                  | 1909:36                 | 215             | 58                  | 732             | 2               | 251, 7                   |       |
| 8283           | 295 | 86/10/22                  | 1224:20                  | 1225:05                 | 56              | 85                  | 1044            | 2               | 252, 3                   |       |
| 8284           | 297 | 86/10/24                  | 1237:57                  | 1238:43                 | 177             | 946                 | 32066           | 5               | 251, 8                   |       |
| 8345           | 297 | 86/10/24                  | 2006:00                  | 2006:24                 | 53              | 61                  | 151             | 2               | 703, 28                  | I     |
| 8346           | 299 | 86/10/26                  | 0153:00                  | 0153:16                 | 38              | 87                  | 642             | 4               | 703, 29                  | I     |
| * 8286         | 301 | 86/10/28                  | 2009:18                  | 2010:16                 | 146             | 116                 | 1296            | 2               | 251, 10                  |       |
| * 8285         | 301 | 86/10/28                  | 2124:35                  | 2125:07                 | 138             | 161                 | 3638            | 3               | 251, 9                   |       |
| 8347           | 303 | 86/10/30                  | 0016:29                  | 0016:51                 | 63              | 207                 | 2562            | 4               | 703, 31                  | I     |
| 8348           | 303 | 86/10/30                  | 0031:03                  | 0031:41                 | 64              | 61                  | 324             | 2               | 703, 32                  | I     |
| 8350           | 303 | 86/10/30                  | 0954:29                  | 0954:42                 | 35              | 66                  | 251             | 2               | 703, 33                  | I     |
| 8287           | 309 | 86/11/05                  | 0733:56                  | 0734:57                 | 75              | 67                  | 526             | 2               | 251, 13                  |       |
| 8288           | 310 | 86/11/06                  | 0219:46                  | 0221:37                 | 134             | 81                  | 549             | 2               | 251, 14                  |       |
| 8289           | 310 | 86/11/06                  | 0536:06                  | 0536:16                 | 93              | 62                  | 157             | 2               | 251, 15                  |       |
| 8290           | 311 | 86/11/07                  | 0622:53                  | 0623:21                 | 95              | 60                  | 451             | 2               | 251, 16                  |       |
| 8351           | 315 | 86/11/11                  | 0425:19                  | 0432:45                 | 786             | 204                 | 41362           | 6               | 703, 36                  | I     |
| 8291           | 317 | 86/11/13                  | 0211:01                  | 0211:42                 | 234             | 150                 | 5408            | 5               | 252, 1                   |       |
| 8293           | 331 | 86/11/27                  | 0041:57                  | 0042:03                 | 14              | 122                 | 242             | 6               | 252, 4                   | NS    |
| 8295           | 343 | 86/12/09                  | 0900:19                  | 0900:55                 | 223             | 67                  | 1362            | 2               | 252, 5                   |       |
| 8296           | 344 | 86/12/10                  | 1224:50                  | 1226:04                 | 283             | 78                  | 1698            | 4               | 252, 6                   | AX    |
| 8305           | 364 | 86/12/30                  | 0223:52                  | 0224:36                 | 193             | 69                  | 1140            | 4               | 252, 7                   |       |

**This Page Intentionally Left Blank**



| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 8307           | 3   | 87/01/03                  | 0858:49                  | 0859:03                 | 28              | 172                 | 784             | 7               | 252, 8                   | M1       |
| * 8312         | 7   | 87/01/07                  | 2214:56                  | 2217:25                 | 254             | 63                  | 2232            | 4               | 252, 9                   | AX       |
| * 8313         | 8   | 87/01/08                  | 1408:12                  | 1408:57                 | 87              | 105                 | 624             | 7               | 252, 10                  |          |
| * 8327         | 20  | 87/01/20                  | 1657:38                  | 1701:04                 | 473             | 66                  | 2707            | 2               | 252, 11                  |          |
| * 8328         | 20  | 87/01/20                  | 1743:59                  | 1744:01                 | 337             | 816                 | 28773           | 8               | 252, 12                  | SN,SA,AX |
| 8359           | 26  | 87/01/26                  | 1358:04                  | 1413:47                 | 1622            | 55                  | 10665           | 5               | 704, 1                   | I,SN     |
| 8334           | 33  | 87/02/02                  | 1241:15                  | 1241:17                 | 11              | 1816                | 1953            | 10              | 252, 13                  | M1,NS    |
| 8337           | 36  | 87/02/05                  | 0017:06                  | 0017:15                 | 21              | 24                  | 70              | 2               | 252, 14                  |          |
| * 8349         | 53  | 87/02/22                  | 1819:45                  | 1821:57                 | 153             | 105                 | 1177            | 2               | 252, 16                  |          |
| 8353           | 61  | 87/03/02                  | 1224:33                  | 1224:43                 | 35              | 71                  | 259             | 15              | 252, 18                  | NS       |
| 8352           | 61  | 87/03/02                  | 1621:59                  | 1622:01                 | 14              | 81                  | 181             | 2               | 252, 17                  |          |
| 8354           | 63  | 87/03/04                  | 1353:15                  | 1354:13                 | 111             | 71                  | 785             | 15              | 252, 19                  | NS       |
| 8355           | 65  | 87/03/06                  | 1217:10                  | 1217:18                 | 125             | 177                 | 4160            | 15              | 252, 20                  | NS       |
| 8397           | 70  | 87/03/11                  | 2344:21                  | 2344:39                 | 172             | 206                 | 4231            | 9               | 704, 9                   | I        |
| 8398           | 72  | 87/03/13                  | 1333:58                  | 1342:30                 | 555             | 58                  | 3966            | 3               | 704, 10                  | I        |
| 8357           | 75  | 87/03/16                  | 1233:12                  | 1234:12                 | 150             | 78                  | 2041            | 5               | 253, 1                   | AX       |
| 8360           | 89  | 87/03/30                  | 2154:40                  | 2154:50                 | 22              | 67                  | 266             | 10              | 253, 2                   | AX,NS    |
| 8361           | 89  | 87/03/30                  | 2201:20                  | 2201:26                 | 13              | 80                  | 175             | 15              | 253, 3                   | AX,NS    |
| 8362           | 92  | 87/04/02                  | 2030:38                  | 2031:09                 | 35              | 65                  | 293             | 15              | 253, 4                   | AX,NS    |
| 8363           | 95  | 87/04/05                  | 1933:40                  | 1936:36                 | 264             | 817                 | 24486           | 6               | 253, 5                   |          |
| 8365           | 96  | 87/04/06                  | 0428:05                  | 0430:06                 | 412             | 294                 | 20746           | 6               | 253, 7                   |          |
| 8364           | 96  | 87/04/06                  | 1840:58                  | 1841:30                 | 115             | 70                  | 606             | 3               | 253, 6                   | AX,NS    |
| 8366           | 98  | 87/04/08                  | 0143:04                  | 0143:46                 | 293             | 140                 | 11297           | 6               | 253, 8                   | SA,AX    |
| 8369           | 98  | 87/04/08                  | 2353:29                  | 2353:41                 | 25              | 66                  | 112             | 2               | 253, 10                  |          |
| 8368           | 99  | 87/04/09                  | 0636:30                  | 0638:09                 | 161             | 110                 | 4171            | 3               | 253, 9                   |          |
| 8370           | 100 | 87/04/10                  | 0917:09                  | 0917:46                 | 66              | 60                  | 352             | 2               | 253, 12                  |          |
| 8371           | 100 | 87/04/10                  | 1637:47                  | 1637:52                 | 23              | 77                  | 348             | 2               | 253, 13                  |          |
| 8372           | 100 | 87/04/10                  | 1815:38                  | 1816:47                 | 565             | 102                 | 5244            | 3               | 253, 14                  |          |
| 8373           | 100 | 87/04/10                  | 2139:21                  | 2140:02                 | 94              | 59                  | 355             | 2               | 253, 15                  |          |
| 8415           | 101 | 87/04/11                  | 0415:36                  | 0416:19                 | 96              | 228                 | 3294            | 5               | 704, 19                  | I        |
| 8374           | 102 | 87/04/12                  | 1935:46                  | 1935:50                 | 30              | 67                  | 209             | 7               | 253, 16                  | NS       |
| 8375           | 102 | 87/04/12                  | 2353:40                  | 2353:50                 | 25              | 106                 | 468             | 4               | 253, 17                  |          |
| 8376           | 104 | 87/04/14                  | 1451:01                  | 1451:14                 | 28              | 51                  | 173             | 15              | 253, 18                  | NS       |
| 8381           | 104 | 87/04/14                  | 2003:09                  | 2003:09                 | 1               | 257                 | 55              | 3               | 254, 5                   | NS       |
| 8382           | 104 | 87/04/14                  | 2003:10                  | 2003:11                 | 1               | 259                 | 51              | 2               | 254, 5                   | NS       |
| 8377           | 105 | 87/04/15                  | 0231:16                  | 0231:43                 | 95              | 353                 | 8031            | 5               | 254, 1                   |          |
| 8378           | 105 | 87/04/15                  | 1148:49                  | 1149:24                 | 110             | 123                 | 1308            | 3               | 254, 2                   |          |
| 8612           | 106 | 87/04/16                  | 0041:54                  | 0042:19                 | 44              | 59                  | 350             | 2               | 709, 3                   | I        |
| 8379           | 106 | 87/04/16                  | 1314:20                  | 1314:58                 | 136             | 95                  | 1672            | 3               | 254, 3                   |          |
| 8380           | 106 | 87/04/16                  | 1558:49                  | 1608:16                 | 1702            | 300                 | 58527           | 4               | 254, 4                   |          |
| 8383           | 107 | 87/04/17                  | 1507:00                  | 1507:13                 | 45              | 55                  | 211             | 2               | 254, 6                   |          |
| 8454           | 107 | 87/04/17                  | 2340:57                  | 2347:41                 | 518             | 56                  | 3443            | 2               | 705, 2                   | I        |
| 8456           | 108 | 87/04/18                  | 1355:04                  | 1355:56                 | 254             | 59                  | 1557            | 2               | 705, 3                   | I        |
| 8457           | 108 | 87/04/18                  | 1443:46                  | 1444:01                 | 28              | 57                  | 208             | 2               | 705, 4                   | I        |
| 8458           | 108 | 87/04/18                  | 1452:56                  | 1454:04                 | 182             | 68                  | 1595            | 2               | 705, 5                   | I        |
| 8459           | 108 | 87/04/18                  | 1521:40                  | 1522:34                 | 170             | 36                  | 1148            | 2               | 705, 6                   | I        |
| 8460           | 108 | 87/04/18                  | 1525:57                  | 1526:17                 | 39              | 57                  | 160             | 2               | 705, 7                   | I        |
| 8461           | 108 | 87/04/18                  | 1655:06                  | 1655:09                 | 14              | 51                  | 103             | 2               | 705, 8                   | I        |
| 8384           | 108 | 87/04/18                  | 2131:22                  | 2132:05                 | 60              | 168                 | 2101            | 6               | 254, 13                  |          |
| 8385           | 109 | 87/04/19                  | 1439:03                  | 1441:15                 | 322             | 128                 | 6455            | 4               | 254, 8                   |          |
| 8387           | 109 | 87/04/19                  | 2109:59                  | 2110:07                 | 14              | 57                  | 112             | 2               | 254, 10                  |          |
| 8388           | 109 | 87/04/19                  | 2211:57                  | 2212:07                 | 34              | 64                  | 232             | 3               | 254, 11                  |          |
| 8386           | 110 | 87/04/20                  | 0116:06                  | 0116:30                 | 82              | 59                  | 469             | 3               | 254, 9                   |          |
| 8389           | 110 | 87/04/20                  | 0126:18                  | 0126:25                 | 14              | 67                  | 79              | 2               | 254, 12                  |          |
| 8394           | 111 | 87/04/21                  | 1808:56                  | 1809:03                 | 22              | 425                 | 2638            | 15              | 254, 14                  | NS       |
| 8396           | 114 | 87/04/24                  | 0735:51                  | 0736:19                 | 82              | 303                 | 4620            | 5               | 254, 15                  |          |
| * 8399         | 123 | 87/05/03                  | 1420:46                  | 1421:00                 | 26              | 20                  | 57              | 2               | 254, 16                  |          |
| 8400           | 125 | 87/05/05                  | 1646:16                  | 1646:21                 | 20              | 71                  | 141             | 2               | 254, 17                  |          |
| 8410           | 135 | 87/05/15                  | 0252:37                  | 0252:45                 | 20              | 61                  | 151             | 2               | 254, 18                  |          |
| 8411           | 135 | 87/05/15                  | 0826:58                  | 0827:02                 | 30              | 395                 | 1088            | 13              | 254, 19                  | NS       |
| 8412           | 135 | 87/05/15                  | 0827:44                  | 0828:17                 | 51              | 61                  | 503             | 2               | 254, 19                  | NS       |
| 8413           | 137 | 87/05/17                  | 0841:05                  | 0843:46                 | 1098            | 136                 | 17310           | 4               | 255, 1                   | SA       |
| 8414           | 138 | 87/05/18                  | 0359:43                  | 0359:58                 | 30              | 61                  | 230             | 2               | 255, 2                   | AX       |
| 8473           | 138 | 87/05/18                  | 1637:32                  | 1638:47                 | 127             | 61                  | 361             | 2               | 705, 11                  | I        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS  |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|--------|
| 8416           | 139 | 87/05/19                  | 0332:20                  | 0332:58                 | 59              | 90                  | 866             | 7               | 255, 3                   | AX     |
| 8417           | 139 | 87/05/19                  | 1251:09                  | 1251:48                 | 113             | 141                 | 2011            | 2               | 255, 4                   |        |
| 8418           | 139 | 87/05/19                  | 2312:10                  | 2312:46                 | 174             | 142                 | 4530            | 3               | 255, 5                   |        |
| 8419           | 140 | 87/05/20                  | 1318:11                  | 1320:59                 | 229             | 67                  | 659             | 2               | 255, 6                   |        |
| 8422           | 141 | 87/05/21                  | 0342:05                  | 0343:26                 | 330             | 103                 | 3950            | 3               | 255, 8                   |        |
| 8421           | 141 | 87/05/21                  | 0844:06                  | 0844:24                 | 52              | 216                 | 2996            | 5               | 255, 7                   |        |
| 8423           | 141 | 87/05/21                  | 2213:30                  | 2213:57                 | 61              | 82                  | 519             | 2               | 255, 10                  |        |
| 8424           | 142 | 87/05/22                  | 0447:03                  | 0447:14                 | 26              | 73                  | 129             | 2               | 255, 11                  |        |
| 8475           | 142 | 87/05/22                  | 1224:20                  | 1224:25                 | 26              | 98                  | 290             | 3               | 705, 13                  | I      |
| 8425           | 143 | 87/05/23                  | 1546:22                  | 1546:45                 | 39              | 105                 | 775             | 2               | 255, 12                  |        |
| 8426           | 143 | 87/05/23                  | 2340:48                  | 2341:39                 | 123             | 81                  | 1416            | 5               | 255, 13                  |        |
| 8427           | 144 | 87/05/24                  | 0047:17                  | 0047:29                 | 45              | 111                 | 2117            | 5               | 255, 14                  |        |
| 8428           | 144 | 87/05/24                  | 0905:28                  | 0905:47                 | 92              | 102                 | 1747            | 2               | 255, 15                  |        |
| 8429           | 144 | 87/05/24                  | 1211:07                  | 1211:17                 | 56              | 148                 | 2536            | 4               | 255, 16                  |        |
| 8430           | 144 | 87/05/24                  | 1217:43                  | 1218:37                 | 152             | 73                  | 1210            | 2               | 255, 17                  |        |
| 8431           | 144 | 87/05/24                  | 1524:23                  | 1525:00                 | 327             | 551                 | 34620           | 5               | 256, 1                   |        |
| 8432           | 144 | 87/05/24                  | 1620:41                  | 1620:54                 | 33              | 87                  | 288             | 2               | 256, 2                   |        |
| 8433           | 144 | 87/05/24                  | 1920:43                  | 1922:04                 | 141             | 132                 | 4102            | 4               | 256, 3                   |        |
| 8434           | 144 | 87/05/24                  | 1924:51                  | 1925:51                 | 174             | 77                  | 2189            | 4               | 256, 3                   |        |
| 8435           | 144 | 87/05/24                  | 2107:44                  | 2108:06                 | 33              | 71                  | 774             | 5               | 256, 4                   |        |
| 8436           | 144 | 87/05/24                  | 2111:48                  | 2112:16                 | 45              | 265                 | 2175            | 6               | 256, 5                   |        |
| 8437           | 144 | 87/05/24                  | 2116:32                  | 2117:23                 | 81              | 132                 | 3048            | 3               | 256, 6                   |        |
| 8438           | 145 | 87/05/25                  | 0340:15                  | 0341:10                 | 220             | 764                 | 24097           | 5               | 256, 7                   |        |
| 8439           | 145 | 87/05/25                  | 0455:15                  | 0456:00                 | 250             | 239                 | 8597            | 5               | 256, 8                   |        |
| 8650           | 145 | 87/05/25                  | 1319:46                  | 1321:15                 | 174             | 73                  | 1800            | 2               | 709, 9                   | I      |
| 8440           | 145 | 87/05/25                  | 1853:35                  | 1854:45                 | 125             | 91                  | 2665            | 2               | 256, 9                   | SN, EG |
| 8441           | 145 | 87/05/25                  | 2202:24                  | 2205:31                 | 223             | 60                  | 966             | 3               | 256, 10                  |        |
| 8442           | 145 | 87/05/25                  | 2225:44                  | 2225:58                 | 26              | 88                  | 283             | 3               | 256, 11                  |        |
| 8443           | 146 | 87/05/26                  | 0006:12                  | 0006:51                 | 63              | 91                  | 853             | 4               | 256, 12                  |        |
| 8444           | 146 | 87/05/26                  | 0033:37                  | 0033:53                 | 35              | 133                 | 707             | 3               | 256, 13                  |        |
| 8445           | 146 | 87/05/26                  | 0611:13                  | 0612:07                 | 123             | 62                  | 806             | 2               | 256, 14                  |        |
| 8446           | 146 | 87/05/26                  | 1701:08                  | 1701:34                 | 54              | 189                 | 1239            | 5               | 256, 15                  |        |
| 8447           | 146 | 87/05/26                  | 1719:09                  | 1720:10                 | 133             | 219                 | 3985            | 4               | 256, 16                  |        |
| 8448           | 146 | 87/05/26                  | 2215:00                  | 2219:24                 | 537             | 66                  | 3676            | 6               | 256, 17                  |        |
| 8449           | 147 | 87/05/27                  | 0110:02                  | 0110:10                 | 24              | 63                  | 189             | 2               | 257, 1                   |        |
| 8450           | 147 | 87/05/27                  | 0128:47                  | 0128:58                 | 37              | 71                  | 300             | 2               | 257, 2                   |        |
| 8451           | 147 | 87/05/27                  | 0135:07                  | 0135:18                 | 51              | 70                  | 462             | 2               | 257, 3                   |        |
| 8452           | 148 | 87/05/28                  | 0045:36                  | 0045:49                 | 22              | 81                  | 292             | 2               | 257, 4                   |        |
| 8453           | 148 | 87/05/28                  | 0853:31                  | 0853:48                 | 32              | 180                 | 1156            | 10              | 257, 5                   |        |
| 8455           | 148 | 87/05/28                  | 2219:40                  | 2220:05                 | 53              | 66                  | 234             | 2               | 257, 6                   |        |
| 8477           | 149 | 87/05/29                  | 1603:19                  | 1604:22                 | 94              | 85                  | 1220            | 4               | 705, 16                  | I      |
| 8478           | 149 | 87/05/29                  | 1614:18                  | 1618:35                 | 655             | 85                  | 9862            | 2               | 705, 17                  | I      |
| 8462           | 152 | 87/06/01                  | 1645:43                  | 1645:53                 | 16              | 57                  | 74              | 2               | 257, 7                   |        |
| 8463           | 153 | 87/06/02                  | 0115:59                  | 0116:07                 | 28              | 179                 | 789             | 9               | 257, 8                   |        |
| 8466           | 161 | 87/06/10                  | 0135:14                  | 0135:21                 | 22              | 99                  | 312             | 15              | 257, 12                  | AX     |
| 8467           | 162 | 87/06/11                  | 0106:17                  | 0106:18                 | 35              | 128                 | 686             | 15              | 257, 13                  | AX     |
| 8468           | 165 | 87/06/14                  | 1932:38                  | 1935:26                 | 670             | 87                  | 6959            | 15              | 257, 14                  | AX     |
| 8469           | 166 | 87/06/15                  | 1250:07                  | 1251:53                 | 297             | 94                  | 16591           | 4               | 257, 16                  |        |
| 8470           | 166 | 87/06/15                  | 1904:08                  | 1904:24                 | 684             | 131                 | 41988           | 15              | 257, 17                  | AX     |
| 8471           | 168 | 87/06/17                  | 0841:53                  | 0842:22                 | 94              | 369                 | 3500            | 15              | 258, 1                   |        |
| 8472           | 175 | 87/06/24                  | 0015:07                  | 0016:11                 | 142             | 114                 | 3053            | 7               | 258, 2                   |        |
| 8481           | 184 | 87/07/03                  | 2251:47                  | 2251:50                 | 8               | 680                 | 689             | 2               | 258, 3                   | M1     |
| 8482           | 186 | 87/07/05                  | 2258:15                  | 2259:58                 | 516             | 73                  | 5501            | 4               | 258, 4                   |        |
| 8484           | 197 | 87/07/16                  | 0111:16                  | 0111:48                 | 129             | 153                 | 3380            | 4               | 258, 6                   |        |
| 8496           | 203 | 87/07/22                  | 1557:28                  | 1558:08                 | 86              | 76                  | 725             | 4               | 258, 7                   |        |
| 8497           | 203 | 87/07/22                  | 1749:09                  | 1749:17                 | 21              | 52                  | 55              | 2               | 258, 8                   |        |
| 8498           | 204 | 87/07/23                  | 0920:52                  | 0921:19                 | 70              | 66                  | 427             | 3               | 258, 9                   |        |
| 8499           | 204 | 87/07/23                  | 1346:00                  | 1346:40                 | 71              | 315                 | 4310            | 8               | 258, 10                  |        |
| 8500           | 204 | 87/07/23                  | 1812:55                  | 1814:27                 | 133             | 67                  | 1073            | 2               | 258, 11                  |        |
| 8501           | 204 | 87/07/23                  | 2123:04                  | 2125:15                 | 159             | 93                  | 1023            | 2               | 258, 12                  |        |
| 8502           | 205 | 87/07/24                  | 0033:51                  | 0034:56                 | 188             | 78                  | 1821            | 2               | 258, 13                  |        |
| 8503           | 205 | 87/07/24                  | 0955:39                  | 0957:24                 | 981             | 1351                | 1.47E+05        | 5               | 258, 14                  |        |
| 8504           | 205 | 87/07/24                  | 1604:19                  | 1604:22                 | 43              | 165                 | 774             | 15              | 258, 15                  | AX     |
| 8538           | 207 | 87/07/26                  | 0327:46                  | 0328:13                 | 125             | 179                 | 3050            | 4               | 706, 13                  | I      |
| 8505           | 207 | 87/07/26                  | 1123:53                  | 1124:27                 | 294             | 73                  | 14075           | 3               | 258, 16                  |        |
| 8506           | 207 | 87/07/26                  | 1344:47                  | 1345:20                 | 152             | 93                  | 7817            | 4               | 258, 17                  |        |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS    |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------|
| 8507           | 207 | 87/07/26                  | 2029:55                  | 2030:09                 | 26              | 96                  | 476             | 2               | 258, 18                  |          |
| 8508           | 208 | 87/07/27                  | 0217:39                  | 0218:38                 | 205             | 153                 | 5171            | 3               | 258, 19                  |          |
| 8483           | 208 | 87/07/27                  | 1809:48                  | 1811:38                 | 1053            | 4600                | 2.28E+05        | 9               | 259, 1                   | M        |
| 8509           | 209 | 87/07/28                  | 1652:23                  | 1652:25                 | 98              | 90                  | 1035            | 5               | 259, 2                   | EN,SA,AX |
| 8510           | 210 | 87/07/29                  | 0143:07                  | 0143:45                 | 64              | 75                  | 386             | 2               | 259, 3                   | EG       |
| 8512           | 219 | 87/08/07                  | 0843:25                  | 0844:42                 | 111             | 51                  | 412             | 2               | 259, 4                   |          |
| 8513           | 219 | 87/08/07                  | 0959:07                  | 0959:17                 | 61              | 153                 | 848             | 9               | 259, 5                   |          |
| 8514           | 219 | 87/08/07                  | 1259:46                  | 1259:52                 | 11              | 106                 | 156             | 3               | 259, 6                   |          |
| 8515           | 219 | 87/08/07                  | 1300:56                  | 1301:45                 | 86              | 95                  | 723             | 2               | 259, 6                   |          |
| 8516           | 219 | 87/08/07                  | 1943:50                  | 1945:18                 | 281             | 151                 | 18071           | 2               | 259, 7                   |          |
| 8517           | 219 | 87/08/07                  | 2234:22                  | 2234:30                 | 36              | 72                  | 1847            | 2               | 259, 8                   |          |
| 8518           | 220 | 87/08/08                  | 0130:57                  | 0131:48                 | 254             | 146                 | 20258           | 2               | 259, 9                   | SN       |
| 8519           | 220 | 87/08/08                  | 0151:01                  | 0151:08                 | 33              | 65                  | 1497            | 2               | 259, 10                  |          |
| 8520           | 220 | 87/08/08                  | 0334:15                  | 0334:48                 | 316             | 566                 | 46058           | 4               | 259, 11                  |          |
| 8548           | 220 | 87/08/08                  | 2041:25                  | 2042:47                 | 137             | 165                 | 4140            | 2               | 706, 16                  | I        |
| 8549           | 220 | 87/08/08                  | 2057:45                  | 2057:56                 | 18              | 68                  | 83              | 2               | 706, 17                  | I        |
| 8550           | 220 | 87/08/08                  | 2058:35                  | 2058:47                 | 58              | 100                 | 639             | 2               | 706, 17                  | I        |
| 8551           | 220 | 87/08/08                  | 2220:51                  | 2222:37                 | 301             | 37                  | 1660            | 2               | 706, 18                  | I ,EG    |
| 8521           | 221 | 87/08/09                  | 0417:02                  | 0417:08                 | 36              | 74                  | 1742            | 2               | 259, 12                  |          |
| 8552           | 221 | 87/08/09                  | 1218:08                  | 1218:28                 | 35              | 77                  | 422             | 2               | 706, 19                  | I        |
| 8525           | 221 | 87/08/09                  | 1354:46                  | 1355:38                 | 81              | 736                 | 14924           | 8               | 260, 1                   | ES       |
| 8522           | 222 | 87/08/10                  | 0232:18                  | 0233:57                 | 408             | 72                  | 3975            | 2               | 260, 2                   |          |
| 8523           | 222 | 87/08/10                  | 0258:26                  | 0306:31                 | 660             | 76                  | 5167            | 3               | 260, 3                   |          |
| 8524           | 222 | 87/08/10                  | 0755:43                  | 0755:46                 | 22              | 223                 | 582             | 15              | 260, 4                   | NS       |
| 8526           | 222 | 87/08/10                  | 1954:06                  | 1954:27                 | 69              | 66                  | 336             | 4               | 260, 5                   |          |
| 8527           | 222 | 87/08/10                  | 2119:04                  | 2119:18                 | 50              | 76                  | 351             | 3               | 260, 6                   |          |
| 8529           | 224 | 87/08/12                  | 0434:42                  | 0435:09                 | 58              | 274                 | 2703            | 5               | 260, 7                   |          |
| 8530           | 224 | 87/08/12                  | 0611:13                  | 0611:40                 | 66              | 55                  | 367             | 2               | 260, 8                   |          |
| 8532           | 225 | 87/08/13                  | 0250:36                  | 0251:15                 | 92              | 57                  | 705             | 3               | 260, 9                   |          |
| 8533           | 225 | 87/08/13                  | 1337:24                  | 1339:46                 | 197             | 217                 | 20653           | 4               | 260, 10                  | ES       |
| 8534           | 225 | 87/08/13                  | 1555:52                  | 1556:42                 | 312             | 93                  | 4173            | 2               | 260, 11                  | M        |
| 8535           | 226 | 87/08/14                  | 0521:35                  | 0522:05                 | 475             | 80                  | 3813            | 5               | 260, 12                  |          |
| 8536           | 226 | 87/08/14                  | 1613:25                  | 1613:58                 | 47              | 67                  | 148             | 4               | 260, 13                  |          |
| 8537           | 231 | 87/08/19                  | 1009:41                  | 1013:59                 | 500             | 116                 | 10743           | 4               | 260, 14                  | M ,EN    |
| 8540           | 232 | 87/08/20                  | 1851:17                  | 1852:42                 | 197             | 56                  | 1125            | 3               | 260, 15                  |          |
| 8541           | 233 | 87/08/21                  | 0555:46                  | 0556:09                 | 74              | 63                  | 401             | 2               | 260, 16                  |          |
| 8542           | 233 | 87/08/21                  | 2156:16                  | 2156:52                 | 84              | 85                  | 4259            | 2               | 261, 1                   |          |
| 8570           | 234 | 87/08/22                  | 1336:31                  | 1336:36                 | 9               | 69                  | 93              | 15              | 707, 4                   | I ,NS    |
| 8543           | 234 | 87/08/22                  | 1638:23                  | 1639:47                 | 625             | 283                 | 27057           | 4               | 707, 5                   | I ,EN    |
| 8544           | 234 | 87/08/22                  | 2207:58                  | 2209:58                 | 602             | 64                  | 6162            | 4               | 707, 6                   | M ,I ,AX |
| 8545           | 236 | 87/08/24                  | 0729:51                  | 0730:23                 | 57              | 55                  | 215             | 2               | 261, 2                   |          |
| 8546           | 236 | 87/08/24                  | 0802:50                  | 0802:56                 | 17              | 56                  | 98              | 2               | 261, 3                   |          |
| 8574           | 239 | 87/08/27                  | 1426:51                  | 1429:04                 | 238             | 39                  | 1340            | 2               | 707, 7                   | I        |
| 8553           | 243 | 87/08/31                  | 2151:38                  | 2153:29                 | 131             | 64                  | 523             | 2               | 261, 4                   |          |
| 8554           | 244 | 87/09/01                  | 1442:39                  | 1442:45                 | 176             | 63                  | 864             | 12              | 261, 5                   | NS       |
| * 8555         | 247 | 87/09/04                  | 0915:19                  | 0915:50                 | 58              | 366                 | 3246            | 5               | 261, 6                   |          |
| 8661           | 248 | 87/09/05                  | 0017:44                  | 0018:13                 | 160             | 77                  | 1530            | 2               | 709, 16                  | I        |
| 8556           | 249 | 87/09/06                  | 1511:15                  | 1511:20                 | 58              | 73                  | 428             | 11              | 261, 9                   | NS       |
| 8583           | 250 | 87/09/07                  | 0735:28                  | 0736:22                 | 146             | 197                 | 3810            | 3               | 708, 9                   | I        |
| 8559           | 250 | 87/09/07                  | 0735:35                  | 0736:23                 | 137             | 199                 | 3822            | 3               | 261, 10                  |          |
| 8557           | 250 | 87/09/07                  | 1159:33                  | 1201:27                 | 383             | 232                 | 11389           | 3               | 261, 7                   |          |
| 8558           | 250 | 87/09/07                  | 1954:22                  | 1956:02                 | 139             | 39                  | 745             | 2               | 261, 8                   |          |
| 8560           | 251 | 87/09/08                  | 1319:49                  | 1320:35                 | 92              | 32                  | 290             | 2               | 261, 11                  |          |
| 8561           | 251 | 87/09/08                  | 1618:26                  | 1619:29                 | 74              | 51                  | 269             | 2               | 261, 12                  |          |
| 8562           | 252 | 87/09/09                  | 0020:55                  | 0020:59                 | 16              | 68                  | 41              | 2               | 261, 13                  |          |
| 8563           | 252 | 87/09/09                  | 1735:29                  | 1735:36                 | 18              | 89                  | 394             | 2               | 261, 14                  |          |
| 8566           | 254 | 87/09/11                  | 1320:35                  | 1321:17                 | 180             | 64                  | 1340            | 6               | 261, 15                  |          |
| 8587           | 254 | 87/09/11                  | 1759:35                  | 1808:54                 | 1081            | 66                  | 8840            | 2               | 708, 10                  | I        |
| 8567           | 255 | 87/09/12                  | 0636:50                  | 0637:26                 | 69              | 112                 | 4421            | 4               | 261, 16                  |          |
| 8568           | 256 | 87/09/13                  | 1221:22                  | 1221:49                 | 60              | 74                  | 3095            | 7               | 709, 10                  | I        |
| 8569           | 256 | 87/09/13                  | 1531:12                  | 1542:30                 | 926             | 57                  | 5605            | 4               | 262, 1                   |          |
| 8571           | 257 | 87/09/14                  | 1330:46                  | 1331:42                 | 891             | 57                  | 6039            | 2               | 262, 2                   |          |
| 8598           | 260 | 87/09/17                  | 1128:44                  | 1129:02                 | 49              | 64                  | 295             | 3               | 709, 1                   | I        |
| 8572           | 260 | 87/09/17                  | 1329:01                  | 1329:04                 | 18              | 600                 | 1331            | 15              | 262, 3                   | M ,AX    |
| 8573           | 260 | 87/09/17                  | 2009:03                  | 2010:12                 | 297             | 62                  | 1600            | 2               | 262, 4                   |          |
| 8588           | 271 | 87/09/28                  | 2209:18                  | 2209:26                 | 34              | 152                 | 616             | 7               | 262, 8                   |          |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8589           | 273 | 87/09/30                  | 0454:34                  | 0456:28                 | 315             | 56                  | 1895            | 2               | 262, 9                   |       |
| 8590           | 277 | 87/10/04                  | 2211:14                  | 2211:20                 | 115             | 50                  | 412             | 2               | 262, 10                  |       |
| 8660           | 278 | 87/10/05                  | 2128:47                  | 2132:47                 | 678             | 93                  | 6380            | 5               | 709, 15                  | I     |
| 8593           | 280 | 87/10/07                  | 0053:47                  | 0054:13                 | 54              | 72                  | 2668            | 3               | 262, 11                  |       |
| 8594           | 282 | 87/10/09                  | 0222:54                  | 0223:12                 | 168             | 78                  | 1131            | 4               | 262, 12                  | SA,AX |
| 8595           | 283 | 87/10/10                  | 0228:18                  | 0228:34                 | 36              | 51                  | 217             | 2               | 263, 1                   |       |
| 8596           | 284 | 87/10/11                  | 0007:20                  | 0007:45                 | 65              | 105                 | 1252            | 2               | 263, 2                   |       |
| 8597           | 284 | 87/10/11                  | 1600:39                  | 1600:57                 | 45              | 125                 | 1130            | 9               | 263, 3                   |       |
| 8599           | 286 | 87/10/13                  | 2125:48                  | 2126:07                 | 32              | 69                  | 190             | 2               | 263, 4                   |       |
| 8600           | 287 | 87/10/14                  | 0712:14                  | 0712:26                 | 21              | 69                  | 187             | 2               | 263, 5                   |       |
| 8601           | 288 | 87/10/15                  | 1107:11                  | 1107:40                 | 334             | 349                 | 10353           | 3               | 263, 6                   |       |
| 8602           | 289 | 87/10/16                  | 0623:01                  | 0623:23                 | 47              | 62                  | 362             | 2               | 263, 7                   |       |
| 8603           | 289 | 87/10/16                  | 0916:21                  | 0916:48                 | 217             | 88                  | 1820            | 2               | 263, 8                   |       |
| 8604           | 289 | 87/10/16                  | 1504:31                  | 1504:59                 | 60              | 259                 | 3282            | 3               | 263, 9                   |       |
| 8627           | 290 | 87/10/17                  | 2236:01                  | 2240:15                 | 399             | 68                  | 2970            | 2               | 709, 6                   | I     |
| 8605           | 291 | 87/10/18                  | 0523:33                  | 0524:04                 | 82              | 62                  | 3792            | 2               | 263, 10                  | ND    |
| 8606           | 291 | 87/10/18                  | 1752:18                  | 1752:34                 | 29              | 76                  | 165             | 2               | 263, 11                  |       |
| 8658           | 291 | 87/10/18                  | 2035:04                  | 2035:52                 | 64              | 54                  | 350             | 2               | 709, 14                  | I     |
| 8607           | 292 | 87/10/19                  | 1516:33                  | 1516:44                 | 33              | 64                  | 604             | 2               | 263, 12                  | AX    |
| 8608           | 292 | 87/10/19                  | 2334:00                  | 2334:22                 | 57              | 89                  | 788             | 2               | 263, 13                  |       |
| 8609           | 293 | 87/10/20                  | 0358:43                  | 0359:09                 | 55              | 105                 | 741             | 2               | 263, 14                  |       |
| 8631           | 293 | 87/10/20                  | 0843:20                  | 0845:01                 | 160             | 104                 | 1470            | 3               | 709, 8                   | I     |
| 8657           | 294 | 87/10/21                  | 0848:38                  | 0849:26                 | 54              | 51                  | 270             | 2               | 709, 13                  | I     |
| 8630           | 294 | 87/10/21                  | 1906:58                  | 1907:02                 | 20              | 67                  | 938             | 15              | 709, 7                   | I ,NS |
| 8610           | 294 | 87/10/21                  | 2217:12                  | 2217:48                 | 52              | 55                  | 119             | 2               | 263, 15                  |       |
| 8614           | 303 | 87/10/30                  | 1502:01                  | 1503:42                 | 188             | 55                  | 1281            | 4               | 263, 16                  |       |
| 8654           | 305 | 87/11/01                  | 2045:27                  | 2045:57                 | 72              | 221                 | 3320            | 4               | 709, 11                  | I     |
| 8655           | 305 | 87/11/01                  | 2210:26                  | 2210:41                 | 67              | 111                 | 1550            | 3               | 709, 12                  | I     |
| 8615           | 306 | 87/11/02                  | 1351:51                  | 1354:05                 | 219             | 37                  | 1141            | 2               | 263, 17                  | IS    |
| 8617           | 307 | 87/11/03                  | 0216:21                  | 0216:46                 | 115             | 153                 | 2748            | 3               | 264, 1                   |       |
| 8618           | 307 | 87/11/03                  | 0414:53                  | 0414:57                 | 18              | 337                 | 914             | 12              | 264, 2                   |       |
| 8616           | 307 | 87/11/03                  | 0534:49                  | 0535:16                 | 50              | 63                  | 335             | 2               | 263, 18                  |       |
| 8619           | 308 | 87/11/04                  | 0803:46                  | 0803:55                 | 30              | 62                  | 378             | 5               | 264, 3                   |       |
| 8620           | 308 | 87/11/04                  | 0941:38                  | 0941:49                 | 76              | 113                 | 781             | 3               | 264, 4                   |       |
| 8622           | 308 | 87/11/04                  | 1720:59                  | 1721:27                 | 146             | 65                  | 949             | 2               | 264, 5                   | SN    |
| 8623           | 309 | 87/11/05                  | 0455:34                  | 0456:17                 | 914             | 3075                | 3.33E+05        | 8               | 264, 6                   | M     |
| 8624           | 309 | 87/11/05                  | 0941:59                  | 0942:53                 | 88              | 96                  | 1135            | 3               | 264, 7                   |       |
| 8625           | 309 | 87/11/05                  | 1844:57                  | 1845:07                 | 52              | 64                  | 393             | 2               | 264, 8                   |       |
| 8626           | 309 | 87/11/05                  | 2333:00                  | 2335:52                 | 624             | 1739                | 1.41E+05        | 8               | 264, 9                   | M     |
| * 8628         | 316 | 87/11/12                  | 1855:09                  | 1855:20                 | 33              | 67                  | 236             | 2               | 264, 10                  |       |
| * 8629         | 316 | 87/11/12                  | 2031:11                  | 2034:22                 | 368             | 77                  | 1825            | 2               | 264, 11                  | M ,IS |
| * 8632         | 319 | 87/11/15                  | 1623:14                  | 1623:19                 | 17              | 90                  | 209             | 6               | 264, 13                  | M ,NS |
| * 8633         | 320 | 87/11/16                  | 1900:59                  | 1901:12                 | 32              | 113                 | 530             | 3               | 264, 15                  |       |
| * 8634         | 321 | 87/11/17                  | 0045:23                  | 0045:32                 | 34              | 63                  | 252             | 2               | 264, 16                  |       |
| * 8635         | 321 | 87/11/17                  | 0206:26                  | 0206:40                 | 55              | 62                  | 220             | 2               | 264, 17                  |       |
| * 8636         | 321 | 87/11/17                  | 0208:45                  | 0209:07                 | 84              | 58                  | 248             | 2               | 264, 17                  |       |
| * 8637         | 322 | 87/11/18                  | 0315:45                  | 0318:21                 | 359             | 739                 | 31387           | 4               | 264, 18                  |       |
| * 8638         | 322 | 87/11/18                  | 1330:34                  | 1331:12                 | 54              | 193                 | 1509            | 3               | 265, 1                   |       |
| * 8639         | 322 | 87/11/18                  | 1728:44                  | 1729:46                 | 70              | 104                 | 3626            | 3               | 265, 2                   |       |
| * 8640         | 323 | 87/11/19                  | 0133:28                  | 0133:32                 | 11              | 223                 | 901             | 4               | 265, 3                   |       |
| * 8641         | 323 | 87/11/19                  | 1115:16                  | 1115:54                 | 90              | 69                  | 4623            | 2               | 265, 4                   |       |
| 8642           | 323 | 87/11/19                  | 1738:33                  | 1738:55                 | 32              | 65                  | 1590            | 2               | 265, 5                   |       |
| 8643           | 324 | 87/11/20                  | 0048:24                  | 0049:02                 | 320             | 77                  | 2494            | 2               | 265, 6                   |       |
| 8644           | 324 | 87/11/20                  | 0411:40                  | 0417:32                 | 1458            | 158                 | 34110           | 5               | 265, 7                   |       |
| 8645           | 324 | 87/11/20                  | 1941:27                  | 1941:29                 | 5               | 84                  | 318             | 2               | 265, 8                   |       |
| 8646           | 324 | 87/11/20                  | 2112:42                  | 2114:33                 | 281             | 108                 | 12723           | 4               | 265, 9                   |       |
| 8647           | 324 | 87/11/20                  | 2328:46                  | 2333:57                 | 500             | 204                 | 40851           | 4               | 265, 10                  |       |
| 8648           | 325 | 87/11/21                  | 1756:32                  | 1801:17                 | 952             | 1503                | 2.20E+05        | 15              | 265, 11                  |       |
| 8649           | 326 | 87/11/22                  | 0211:54                  | 0212:19                 | 38              | 69                  | 1864            | 2               | 265, 12                  |       |
| 8667           | 328 | 87/11/24                  | 1440:16                  | 1440:36                 | 104             | 73                  | 1120            | 2               | 709, 17                  | I     |
| 8651           | 328 | 87/11/24                  | 2229:21                  | 2231:35                 | 250             | 78                  | 2423            | 3               | 265, 13                  |       |
| 8652           | 329 | 87/11/25                  | 1716:12                  | 1716:39                 | 53              | 67                  | 355             | 2               | 265, 14                  |       |
| 8653           | 330 | 87/11/26                  | 0314:17                  | 0316:35                 | 217             | 54                  | 570             | 2               | 265, 15                  |       |
| 8656           | 337 | 87/12/03                  | 1220:23                  | 1220:32                 | 22              | 74                  | 199             | 7               | 265, 16                  |       |
| 8659           | 343 | 87/12/09                  | 0341:02                  | 0341:18                 | 27              | 65                  | 106             | 2               | 265, 17                  |       |
| 8662           | 344 | 87/12/10                  | 1403:36                  | 1404:12                 | 372             | 71                  | 2096            | 2               | 265, 18                  |       |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------|
| 8663           | 344 | 87/12/10                  | 1524:23                  | 1526:40                 | 168             | 65                  | 717             | 2               | 265, 19                  |       |
| 8678           | 344 | 87/12/10                  | 1651:16                  | 1657:51                 | 1409            | 64                  | 8300            | 4               | 710, 1                   | I     |
| 8681           | 345 | 87/12/11                  | 1058:29                  | 1059:34                 | 198             | 91                  | 2470            | 5               | 710, 2                   | I     |
| 8682           | 345 | 87/12/11                  | 1236:20                  | 1237:15                 | 124             | 114                 | 4360            | 4               | 710, 3                   | I ,EN |
| 8664           | 345 | 87/12/11                  | 1318:46                  | 1319:33                 | 94              | 77                  | 4868            | 6               | 266, 1                   |       |
| 8665           | 345 | 87/12/11                  | 1455:39                  | 1457:51                 | 256             | 61                  | 12618           | 4               | 266, 2                   |       |
| 8666           | 348 | 87/12/14                  | 0421:54                  | 0423:32                 | 211             | 639                 | 24257           | 6               | 266, 3                   | M1    |
| 8683           | 349 | 87/12/15                  | 0852:24                  | 0853:42                 | 184             | 92                  | 2640            | 3               | 710, 4                   | I     |
| 8668           | 351 | 87/12/17                  | 0748:49                  | 0749:02                 | 41              | 93                  | 371             | 2               | 266, 4                   |       |
| 8669           | 358 | 87/12/24                  | 0443:24                  | 0443:49                 | 49              | 63                  | 207             | 2               | 266, 5                   |       |
| 8670           | 360 | 87/12/26                  | 0214:21                  | 0218:04                 | 293             | 282                 | 6508            | 3               | 266, 6                   |       |
| 8709           | 360 | 87/12/26                  | 0344:46                  | 0344:56                 | 24              | 83                  | 221             | 12              | 710, 5                   | I ,NS |
| 8671           | 360 | 87/12/26                  | 1741:18                  | 1741:34                 | 32              | 126                 | 750             | 2               | 266, 7                   |       |
| 8672           | 361 | 87/12/27                  | 0019:13                  | 0025:30                 | 575             | 103                 | 11610           | 2               | 266, 8                   |       |
| 8673           | 362 | 87/12/28                  | 0415:33                  | 0417:01                 | 161             | 80                  | 1323            | 2               | 266, 9                   |       |
| 8674           | 362 | 87/12/28                  | 0607:55                  | 0609:34                 | 124             | 608                 | 19458           | 3               | 266, 10                  | M1    |
| 8675           | 362 | 87/12/28                  | 1538:31                  | 1539:07                 | 90              | 355                 | 4540            | 4               | 266, 11                  |       |
| 8676           | 363 | 87/12/29                  | 0705:40                  | 0706:37                 | 104             | 77                  | 1162            | 2               | 266, 12                  |       |
| 8677           | 365 | 87/12/31                  | 0231:32                  | 0231:51                 | 57              | 81                  | 887             | 2               | 266, 13                  |       |

**This Page Intentionally Left Blank**

Notes on events with an asterisk in front of the HXRBS event number

| HXRBS Events      | Comments  |
|-------------------|---|
| 125 - 128         | Times on archive tapes are low by $17^{\text{m}} 28.576^{\text{s}}$                     |
| 1219 - 1225       | Times on archive tapes are low by $4^{\text{m}} 30^{\text{s}}$ .                        |
| 2203 - 2209       | Energy range 12.6 - 194. keV.   |
| 2210 - 2213       | Energy range 106. - 1332. keV.  |
| 2214 - 2240, 5884 | Energy range 43.5 - 790.1 keV.  |
| 3077 - 3086       | Times on archive tapes are low by 24 days $20^{\text{h}}31^{\text{m}}24.096^{\text{s}}$ |
| 3568 - 3618       | Times on archive tapes are low by $3.072^{\text{s}}$ .                                  |
| 5053 - 5417       | Times on archive tapes are high by $5.12^{\text{s}}$ .                                  |
| 5418 - 5439       | Times on archive tapes are high by $5.63^{\text{s}}$ .                                  |
| 5440 - 5446       | Times on archive tapes are high by $5.12^{\text{s}}$ .                                  |
| 5439              | Archive tape covers first part of flare, IPD tape covers last part.                     |
| 6251 - 6252       | Energy range 13.6 - 209 keV.  |
| 6676 - 6683       | Times on archive tapes are high by $3.072^{\text{s}}$ .                                 |
| 6710              | Energy range 13.8 - 212 keV.  |
| 6890 - 7035       | Times on archive tapes are high by $2.41^{\text{s}}$ .                                  |
| 6890, 8007        | Energy range 32.8 - 574.9 keV.  |
| 6891 - 6892       | Energy range 13.9 - 214.4 keV.  |
| 8221 - 8226       | Times on archive tapes are high by $1.024^{\text{s}}$ .                                 |
| 8231 - 8232       | Times on archive tapes are high by $1.024^{\text{s}}$ .                                 |
| 8285 - 8286       | Energy range 14.4 - 222.2 keV.  |
| 8312 - 8313       | Times on archive tapes are low by $2.048^{\text{s}}$ .                                  |
| 8327 - 8328       | Times on archive tapes are low by $2.048^{\text{s}}$ .                                  |
| 8349              | Energy range 14.5 - 223 keV.  |
| 8399              | Energy range 122.3 - 1531 keV.  |
| 8555              | Energy range 14.6 - 224.2 keV.  |
| 8628              | Times on archive tape are high by $.142^{\text{s}}$ .                                   |
| 8629              | Times on archive tape are high by $.147^{\text{s}}$ .                                   |
| 8632              | Times on archive tape are high by $.176^{\text{s}}$ .                                   |
| 8633              | Times on archive tape are high by $.921^{\text{s}}$ .                                   |
| 8634              | Times on archive tape are high by $.946^{\text{s}}$ .                                   |
| 8635 - 8636       | Times on archive tapes are high by $.952^{\text{s}}$ .                                  |
| 8637              | Times on archive tape are high by $1.064^{\text{s}}$ .                                  |
| 8638              | Times on archive tape are high by $1.109^{\text{s}}$ .                                  |
| 8639              | Times on archive tape are high by $1.127^{\text{s}}$ .                                  |
| 8640              | Times on archive tape are high by $1.163^{\text{s}}$ .                                  |
| 8641              | Times on archive tape are high by $1.206^{\text{s}}$ .                                  |

**This Page Intentionally Left Blank**




LISTING  
OF ALL HXRBS EVENTS WITH A  
PEAK RATE > 10,000 COUNTS/S.

February 1980 to December 1987

**This Page Intentionally Left Blank**

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS             |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|-------------------|
| 87             | 89  | 80/03/29                  | 0917:00                  | 0918:13                 | 210             | 19000               | 2.50E+05        | 15              | 6, 10                    | M, FS             |
| 295            | 106 | 80/04/15                  | 1508:00                  | 1510:25                 | 700             | 19000               | 9.50E+05        | 11              | 14, 16                   | M                 |
| 375            | 119 | 80/04/28                  | 2039:35                  | 2040:00                 | 254             | 10964               | 1.17E+05        | 15              | 17, 2                    | DG, FS            |
| 479            | 130 | 80/05/09                  | 0711:05                  | 0712:35                 | 635             | 10800               | 6.94E+05        | 15              | 20, 1                    | M, FS             |
| 538            | 142 | 80/05/21                  | 2053:35                  | 2055:53                 | 2376            | 14300               | 3.01E+06        | 15              | 21, 7                    | M, ES             |
| 634            | 156 | 80/06/04                  | 0653:56                  | 0654:37                 | 279             | 35200               | 1.37E+06        | 15              | 25, 3                    | FS                |
| 688            | 159 | 80/06/07                  | 0310:51                  | 0312:15                 | 691             | 39391               | 1.33E+06        | 15              | 27, 4                    | M                 |
| 762            | 173 | 80/06/21                  | 0112:40                  | 0118:40                 | 1352            | 141391              | 4.14E+06        | 15              | 30, 3                    |                   |
| 877            | 183 | 80/07/01                  | 1624:59                  | 1627:29                 | 831             | 27235               | 2.60E+06        | 15              | 35, 1                    | M, FS             |
| 1022           | 203 | 80/07/21                  | 0253:43                  | 0256:13                 | 612             | 12443               | 7.99E+05        | 15              | 40, 7                    | M                 |
| 1210           | 248 | 80/09/04                  | 0155:05                  | 0201:20                 | 795             | 12860               | 1.11E+06        | 10              | 46, 11                   |                   |
| 1311           | 283 | 80/10/09                  | 1123:25                  | 1124:55                 | 1440            | 26608               | 1.83E+06        | 5               | 50, 1                    |                   |
| 1374           | 288 | 80/10/14                  | 0557:50                  | 0608:55                 | 2110            | 39583               | 1.49E+07        | 15              | 52, 6                    | M                 |
| 1472           | 299 | 80/10/25                  | 0955:55                  | 0956:20                 | 695             | 13257               | 1.95E+05        | 5               | 55, 8                    | M, SN, ES         |
| 1534           | 310 | 80/11/05                  | 2232:10                  | 2233:05                 | 350             | 12730               | 4.61E+05        | 10              | 57, 6                    | FS                |
| 1543           | 311 | 80/11/06                  | 0324:10                  | 0348:00                 | 7395            | 155347              | 7.39E+07        | 15              | 201, 2                   | EN, IN, IS        |
| 1563           | 312 | 80/11/07                  | 0200:09                  | 0204:55                 | 661             | 86574               | 1.56E+07        | 15              | 58, 8                    | M, EN             |
| 1661           | 317 | 80/11/12                  | 0445:50                  | 0452:00                 | 1045            | 50219               | 4.17E+06        | 15              | 61, 15                   | M, EN             |
| 1702           | 320 | 80/11/15                  | 1516:15                  | 1543:30                 | 2860            | 12939               | 5.65E+06        | 10              | 63, 5                    | M                 |
| 1943           | 25  | 81/01/25                  | 0744:15                  | 0747:00                 | 551             | 31930               | 2.35E+06        | 10              | 72, 2                    | M                 |
| 1968           | 28  | 81/01/28                  | 0409:35                  | 0413:20                 | 1101            | 10450               | 1.08E+06        | 12              | 72, 15                   | M                 |
| 5844           | 51  | 81/02/20                  | 0639:03                  | 0645:51                 | 2036            | 25356               | 5.90E+06        | 9               | 185, 10                  | M, I              |
| 2137           | 55  | 81/02/24                  | 1932:45                  | 1936:35                 | 607             | 19518               | 3.43E+06        | 15              | 78, 15                   | M, EN             |
| 2153           | 57  | 81/02/26                  | 1423:10                  | 1425:55                 | 497             | 22521               | 9.58E+05        | 15              | 79, 6                    | M                 |
| 2293           | 91  | 81/04/01                  | 0105:40                  | 0146:04                 | 3140            | 12460               | 7.20E+06        | 14              | 83, 1                    | EN                |
| 2299           | 92  | 81/04/02                  | 1059:05                  | 1106:40                 | 985             | 14865               | 2.55E+06        | 12              | 83, 4                    | M                 |
| 2373           | 100 | 81/04/10                  | 1633:40                  | 1651:15                 | 1360            | 11879               | 3.63E+06        | 15              | 85, 10                   | M                 |
| 2520           | 114 | 81/04/24                  | 0135:50                  | 0143:15                 | 3342            | 11690               | 4.46E+06        | 5               | 90, 1                    | M, SN             |
| 2589           | 117 | 81/04/27                  | 0740:55                  | 0812:55                 | 9052            | 56177               | 4.85E+07        | 15              | 198, 2                   | M                 |
| 2604           | 124 | 81/05/04                  | 0836:40                  | 0838:45                 | 711             | 19517               | 1.17E+06        | 14              | 92, 6                    | M                 |
| 2907           | 200 | 81/07/19                  | 0506:20                  | 0533:50                 | 3255            | 34086               | 1.23E+07        | 14              | 101, 4                   | M, EN, SA         |
| 3030           | 207 | 81/07/26                  | 1347:35                  | 1352:25                 | 668             | 56177               | 8.12E+06        | 15              | 105, 6                   | M                 |
| 3074           | 209 | 81/07/28                  | 2009:00                  | 2010:00                 | 598             | 11321               | 4.95E+05        | 9               | 106, 8                   | M                 |
| 3193           | 222 | 81/08/10                  | 0657:05                  | 0658:55                 | 579             | 12265               | 4.59E+05        | 10              | 110, 5                   | FS                |
| 3211           | 224 | 81/08/12                  | 0628:50                  | 0629:15                 | 1498            | 19518               | 2.01E+06        | 5               | 110, 12                  | M, SN             |
| 3476           | 250 | 81/09/07                  | 0509:10                  | 0511:40                 | 984             | 25878               | 1.39E+06        | 14              | 119, 12                  |                   |
| 3520           | 253 | 81/09/10                  | 0935:35                  | 0940:45                 | 610             | 28539               | 1.42E+06        | 11              | 121, 3                   | EN                |
| * 3584         | 258 | 81/09/15                  | 2110:15                  | 2114:40                 | 931             | 28212               | 3.10E+06        | 15              | 122, 14                  | EN, FS            |
| 3659           | 280 | 81/10/07                  | 2241:35                  | 2301:35                 | 6830            | 33669               | 1.05E+07        | 15              | 198, 4                   | M, ES, DG         |
| 3685           | 283 | 81/10/10                  | 1247:30                  | 1248:35                 | 516             | 11434               | 3.10E+05        | 7               | 125, 15                  | M, FS             |
| 3726           | 285 | 81/10/12                  | 1034:30                  | 1100:00                 | 1896            | 12464               | 2.85E+06        | 5               | 127, 4                   | M, EN, SA, FS     |
| 3794           | 287 | 81/10/14                  | 1703:20                  | 1706:30                 | 232             | 44179               | 3.34E+06        | 15              | 128, 11                  | EN                |
| 6570           | 316 | 81/11/12                  | 1555:58                  | 1601:46                 | 1382            | 22520               | 1.92E+06        | 11              | 207, 8                   | M, I, SN, ES, FS  |
| 4592           | 39  | 82/02/08                  | 1249:55                  | 1250:00                 | 1224            | 31095               | 1.96E+06        | 15              | 151, 5                   | M, SN, SG         |
| 4965           | 89  | 82/03/30                  | 0521:10                  | 0537:14                 | 1326            | 18903               | 6.47E+06        | 15              | 161, 1                   | SN                |
| * 5157         | 154 | 82/06/03                  | 1140:32                  | 1143:31                 | 1449            | 213791              | 4.50E+07        | 15              | 166, 9                   | EN                |
| * 5189         | 156 | 82/06/05                  | 0124:26                  | 0128:54                 | 1141            | 18017               | 1.04E+06        | 12              | 167, 9                   | M1, DG, FS        |
| * 5192         | 156 | 82/06/05                  | 0613:31                  | 0616:07                 | 2120            | 20434               | 3.02E+06        | 12              | 167, 11                  | M1, EN            |
| * 5199         | 156 | 82/06/05                  | 1519:25                  | 1529:18                 | 1520            | 10152               | 1.39E+06        | 5               | 167, 15                  | M1                |
| * 5220         | 157 | 82/06/06                  | 1636:48                  | 1639:21                 | 3691            | 60382               | 1.40E+07        | 9               | 168, 6                   | M1, SN, EN        |
| * 5344         | 166 | 82/06/15                  | 0030:10                  | 0030:40                 | 1014            | 25304               | 8.50E+05        | 15              | 172, 1                   | M5, FS            |
| 6577           | 166 | 82/06/15                  | 1017:42                  | 1020:24                 | 4383            | 33320               | 7.63E+06        | 11              | 207, 11                  | M5, I, IN, DG, FS |
| * 5356         | 166 | 82/06/15                  | 1508:18                  | 1512:39                 | 621             | 20609               | 1.81E+06        | 15              | 172, 5                   |                   |
| * 5375         | 168 | 82/06/17                  | 1048:19                  | 1051:20                 | 621             | 13904               | 1.02E+06        | 10              | 172, 14                  | M5, FS            |
| * 5414         | 171 | 82/06/20                  | 0112:55                  | 0113:32                 | 411             | 13670               | 1.48E+05        | 10              | 174, 1                   | M5, FS            |
| 7533           | 172 | 82/06/21                  | 2246:02                  | 2303:17                 | 1286            | 20700               | 2.54E+06        | 8               | 232, 2                   | M5, I, ES         |
| 6750           | 190 | 82/07/09                  | 0724:58                  | 0737:20                 | 6677            | 155330              | 3.93E+07        | 15              | 212, 1                   | M5, I, EN, IN, FS |
| 5490           | 190 | 82/07/09                  | 2105:38                  | 2107:01                 | 529             | 57078               | 1.19E+06        | 15              | 176, 6                   | M5                |
| 5580           | 193 | 82/07/12                  | 0932:36                  | 0945:57                 | 7741            | 58007               | 4.10E+07        | 13              | 178, 11                  | M5, EN, SA        |
| 5643           | 198 | 82/07/17                  | 0202:13                  | 0205:51                 | 1189            | 21000               | 1.84E+06        | 9               | 180, 4                   |                   |
| 6017           | 330 | 82/11/26                  | 0217:52                  | 0233:22                 | 18188           | 22747               | 4.86E+06        | 15              | 708, 11                  | M5, I, IN, DG     |
| 6060           | 341 | 82/12/07                  | 2335:30                  | 2352:41                 | 3539            | 23654               | 1.80E+07        | 15              | 190, 13                  | M5, SN, EN        |
| 6116           | 347 | 82/12/13                  | 0320:52                  | 0325:43                 | 1602            | 12464               | 1.64E+06        | 15              | 191, 16                  | M5                |
| 6124           | 349 | 82/12/15                  | 1626:19                  | 1632:40                 | 1465            | 81391               | 1.32E+07        | 13              | 199, 2                   |                   |

| HXRBS<br>EVENT | DOY | START<br>DATE<br>YY/MM/DD | START<br>TIME<br>HHMM:SS | PEAK<br>TIME<br>HHMM:SS | DURATION<br>SEC | PEAK<br>RATE<br>C/S | TOTAL<br>COUNTS | MAX<br>CH.<br># | FLARE<br>TAPE#,<br>FILE# | FLAGS          |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------------------|----------------|
| 6146           | 351 | 82/12/17                  | 1854:40                  | 1857:10                 | 4059            | 108043              | 1.51E+07        | 15              | 199, 3                   | M5,SN,EN,DG    |
| 6152           | 352 | 82/12/18                  | 0817:31                  | 0822:02                 | 1241            | 19095               | 1.56E+06        | 10              | 192, 16                  | M5,ND          |
| 6741           | 363 | 82/12/29                  | 0643:00                  | 0645:12                 | 757             | 38120               | 7.49E+06        | 15              | 211, 13                  | I              |
| 6270           | 34  | 83/02/03                  | 0550:25                  | 0603:37                 | 7389            | 46354               | 1.51E+07        | 15              | 199, 5                   | M5,IN,SA,IS,DG |
| 6466           | 127 | 83/05/07                  | 2215:32                  | 2218:26                 | 209             | 118044              | 5.36E+06        | 15              | 204, 9                   | M5,ES,FS       |
| 6480           | 129 | 83/05/09                  | 2303:43                  | 2305:36                 | 502             | 20478               | 2.71E+06        | 15              | 204, 15                  | M5,FS          |
| 6491           | 132 | 83/05/12                  | 0252:03                  | 0255:02                 | 1005            | 11608               | 8.48E+05        | 15              | 205, 5                   | M5             |
| * 6955         | 115 | 84/04/24                  | 2352:13                  | 0001:07                 | 13287           | 231300              | 1.49E+08        | 15              | 217, 2                   | M5,EN,IN       |
| 7056           | 126 | 84/05/05                  | 1808:24                  | 1814:43                 | 1780            | 17630               | 6.61E+06        | 15              | 220, 1                   | M,EN,FS        |
| 7306           | 131 | 84/05/10                  | 1720:40                  | 1722:22                 | 1108            | 13460               | 1.07E+06        | 15              | 226, 1                   | I              |
| 7177           | 140 | 84/05/19                  | 2150:17                  | 2152:25                 | 1720            | 193700              | 3.50E+07        | 15              | 222, 9                   | M              |
| 7208           | 141 | 84/05/20                  | 2153:01                  | 2153:37                 | 200             | 14690               | 1.91E+05        | 15              | 223, 14                  | M,FS           |
| 7211           | 142 | 84/05/21                  | 0219:19                  | 0219:43                 | 1102            | 23650               | 1.86E+06        | 7               | 223, 16                  | SG,EG,DG,ND    |
| 7543           | 20  | 85/01/20                  | 2045:27                  | 2045:51                 | 1509            | 13040               | 9.27E+05        | 10              | 232, 7                   | M              |
| 7554           | 21  | 85/01/21                  | 2352:28                  | 0001:32                 | 6222            | 133000              | 4.83E+07        | 15              | 233, 1                   | M,IN,IS,DG     |
| 7725           | 114 | 85/04/24                  | 0926:39                  | 0929:35                 | 3736            | 18610               | 7.76E+06        | 15              | 257, 11                  | M,SN,EN        |
| 8147           | 35  | 86/02/04                  | 0733:09                  | 0737:14                 | 317             | 85220               | 4.96E+06        | 14              | 248, 3                   | M5,EN          |
| 8465           | 37  | 86/02/06                  | 0617:12                  | 0622:05                 | 1857            | 92037               | 1.18E+07        | 15              | 705, 9                   | I              |

|  <h1>Report Documentation Page</h1>   |  |   |                  |
|--|--|---|------------------|
| 1. Report No.<br>NASA TM-4036  |  | 2. Government Accession No.   |                  |
| 4. Title and Subtitle<br>The Hard X-Ray Burst Spectrometer Event Listing<br>1980-1987  |  | 3. Recipient's Catalog No.  |                  |
|  |  | 5. Report Date<br>June 1988   |                  |
| 7. Author(s)<br>B. R. Dennis, L. E. Orwig, A. L. Kiplinger,<br>R. A. Schwartz, B. R. Gibson, G. S. Kennard,<br>A. K. Tolbert, D. A. Biesecker, G. J. Labow, and<br>A. Shaver   |  | 6. Performing Organization Code<br>682  |                  |
|  |  | 8. Performing Organization Report No.<br>88B0124                                |                  |
| 9. Performing Organization Name and Address<br>Laboratory for Astronomy and Solar Physics<br>Goddard Space Flight Center<br>Greenbelt, Maryland 20771  |  | 10. Work Unit No.   |                  |
|  |  | 11. Contract or Grant No.   |                  |
| 12. Sponsoring Agency Name and Address<br>National Aeronautics and Space Administration<br>Washington, D.C. 20546-0001   |  | 13. Type of Report and Period Covered<br>Technical Memorandum                   |                  |
|  |  | 14. Sponsoring Agency Code  |                  |
| 15. Supplementary Notes<br>B. R. Dennis and L. E. Orwig: Goddard Space Flight Center, Greenbelt, Maryland.<br>A. L. Kiplinger and R. A. Schwartz: ST Systems Corporation (STX), Lanham, Maryland.<br>B. R. Gibson, G. S. Kennard, A. K. Tolbert, D. A. Biesecker, G. J. Labow, and<br>A. Shaver: Science Applications Research, Inc., Lanham, Maryland.  |  |   |                  |
| 16. Abstract<br>This event listing is a comprehensive reference for the Hard X-ray bursts detected with the Hard X-Ray Burst Spectrometer on the Solar Maximum Mission from the time of launch on February 14, 1980 to December 1987. Over 8600 X-ray events were detected in the energy range from 30 to ~ 600 keV with the vast majority being solar flares. The listing includes the start time, peak time, duration and peak rate of each event. |  |   |                  |
| 17. Key Words (Suggested by Author(s))<br>Solar Flares, Hard X-Rays, Solar<br>1980-1987  |  | 18. Distribution Statement<br>Unclassified-Unlimited<br><br>Subject Category 92 |                  |
| 19. Security Classif. (of this report)<br>Unclassified   | 20. Security Classif. (of this page)<br>Unclassified | 21. No. of pages<br>68  | 22. Price<br>A04 |

**National Aeronautics and  
Space Administration  
Code NTT-4**

**Washington, D.C.  
20546-0001**

**Official Business  
Penalty for Private Use, \$300**

**SPECIAL FOURTH-CLASS RATE  
POSTAGE & FEES PAID  
NASA  
Permit No. G-27**



**POSTMASTER: If Undeliverable (Section 158  
Postal Manual) Do Not Return**

---